

HealthPrism™

State of Missouri COVID-19 Response Vaccine Distribution Analysis

September 08, 2021

This document includes COVID-19 data and analytics for the State of Missouri in support of their vaccine distribution process

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[**Statewide Vaccination Progress \(12-17\)**](#) [8-9]

[**Regional Vaccination Rates Over Time \(5-Week and 12-Week\)**](#) [10-11]

[**7-Day Statewide Vaccine Uptake \(All Ages\)**](#) [12-13]

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STATEWIDE METRICS

2.3M -34k

18+ remaining unvaccinated of eligible

54% +0.7%

18+ percent of eligible population that has initiated vaccination

COVID-19 CASE RATE HOTSPOTS



- **Regions A, C and E** have experienced the **highest increase** of COVID-19 case rates for the past 3 weeks
- **Case rate hotspots** persisted from last week in the core of **Kansas City** (11 within I-435) and **St. Louis** (4 inside I-270)
- The surge in cases in **Wentzville** and **St. Peters** (outside St. Louis) has persisted for 3 weeks running
- **33%** of statewide case rate hotspots are either **inside or within 35 miles of Region E**

VACCINE UPTAKE TRENDS



- Vaccine initiations **fell for the 4th straight week** – slight decrease in the **18+ group (-6%)** and a **dramatic decrease** in the **12-17 population (-44%)**
- **Regions A, C, E, & F** contained the **largest percentage (86%) of vaccine uptake hotspots** – mainly around St. Louis, Kansas City, Columbia/Jefferson City, and Cape Girardeau

REGION C DEEP DIVE

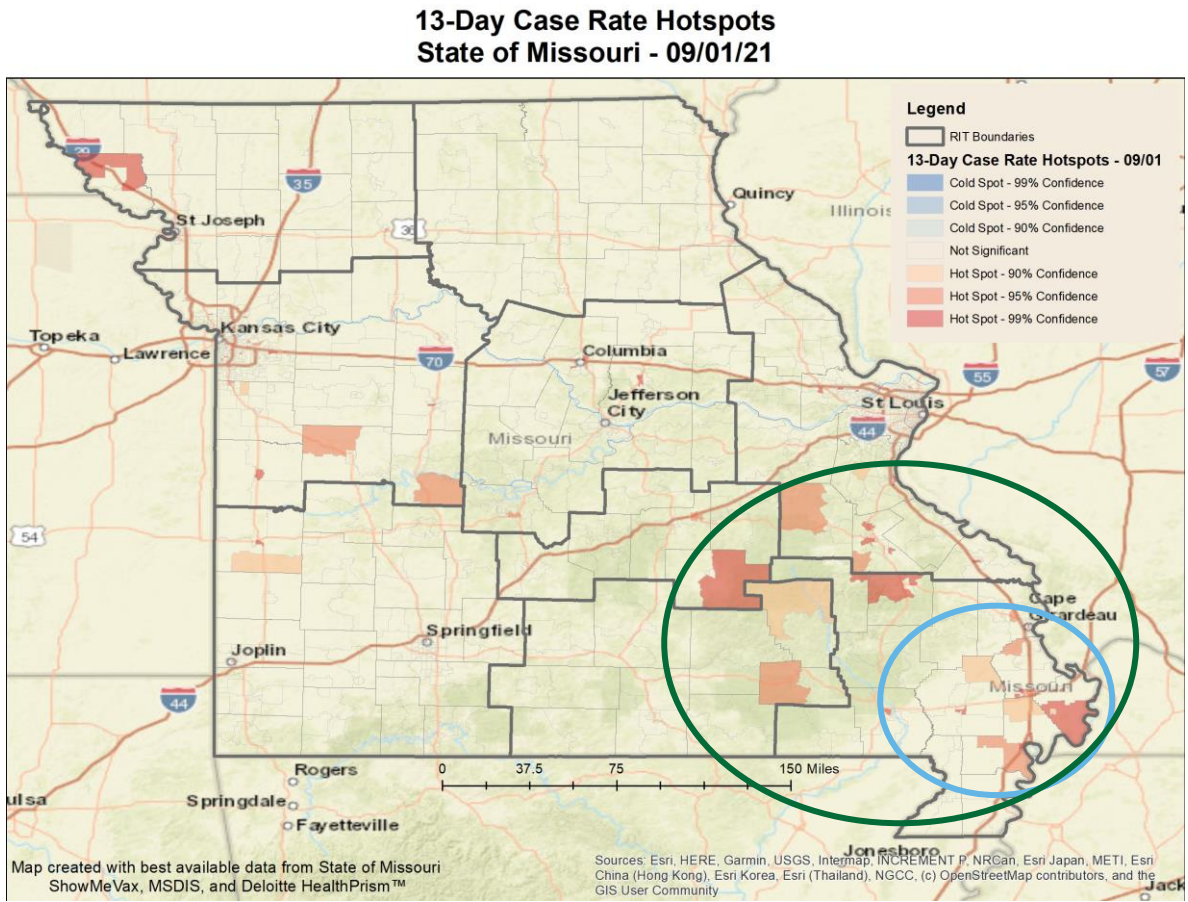
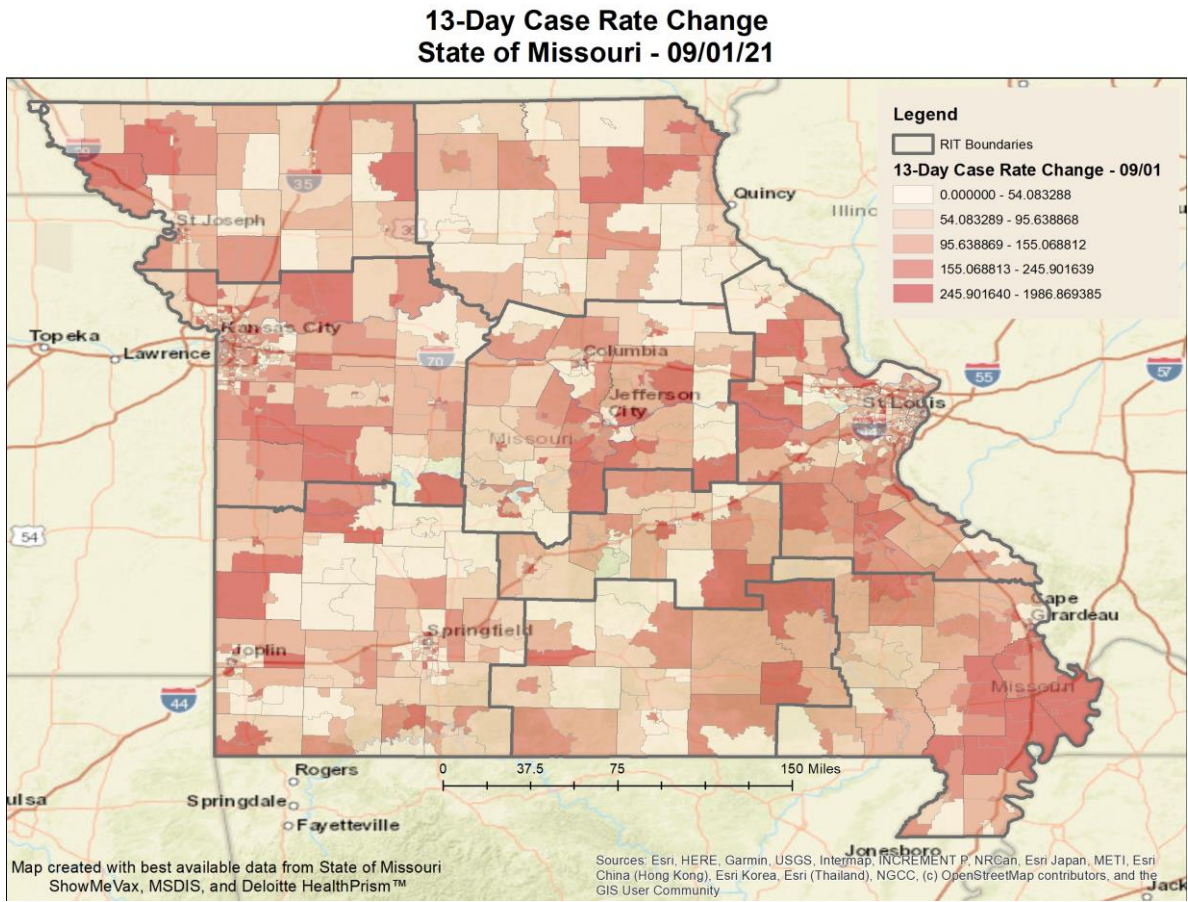


- Region C is the **2nd highest vaccinated region**, but its share of weekly 18+ vaccinations has **decreased** over the last several months
- 10 Census Tracts of focus were identified based on case rate, COVID-19 vulnerability, and vaccination rates – all within **northern areas of St. Louis City and St. Louis County**

Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 9/2/21 – provided by the State of Missouri. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/20/21 and 9/01/21 – provided by the State of Missouri. Methodology, data sources, and limitations are available in the Appendix.

13-Day* COVID-19 Case Rate Hotspots at the Census Tract Level

For the time period between 8/20/21 and 9/1/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right



Regions A, C and E have experienced the **highest increase of COVID-19 case rates** and have the **highest number of case rate hotspots**

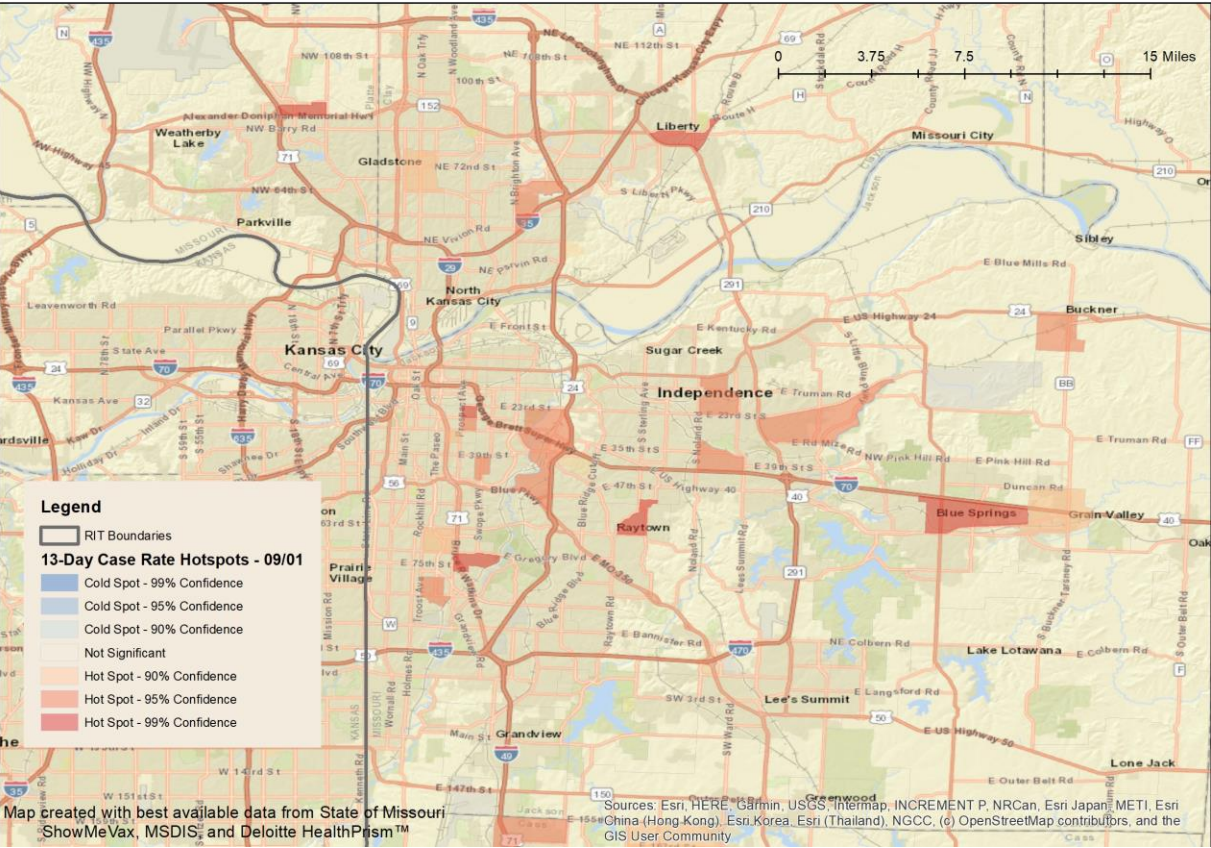
27 of 82 (33%) Statewide case rate hotspots are either contained or within 35 miles of Region E (Farmington/Park Hills)

Case rate hotspots have continued to increase in **Region E** – with 86% (12 of 14 hotspots) in **close proximity to I-55 and US-60** for the past two weeks

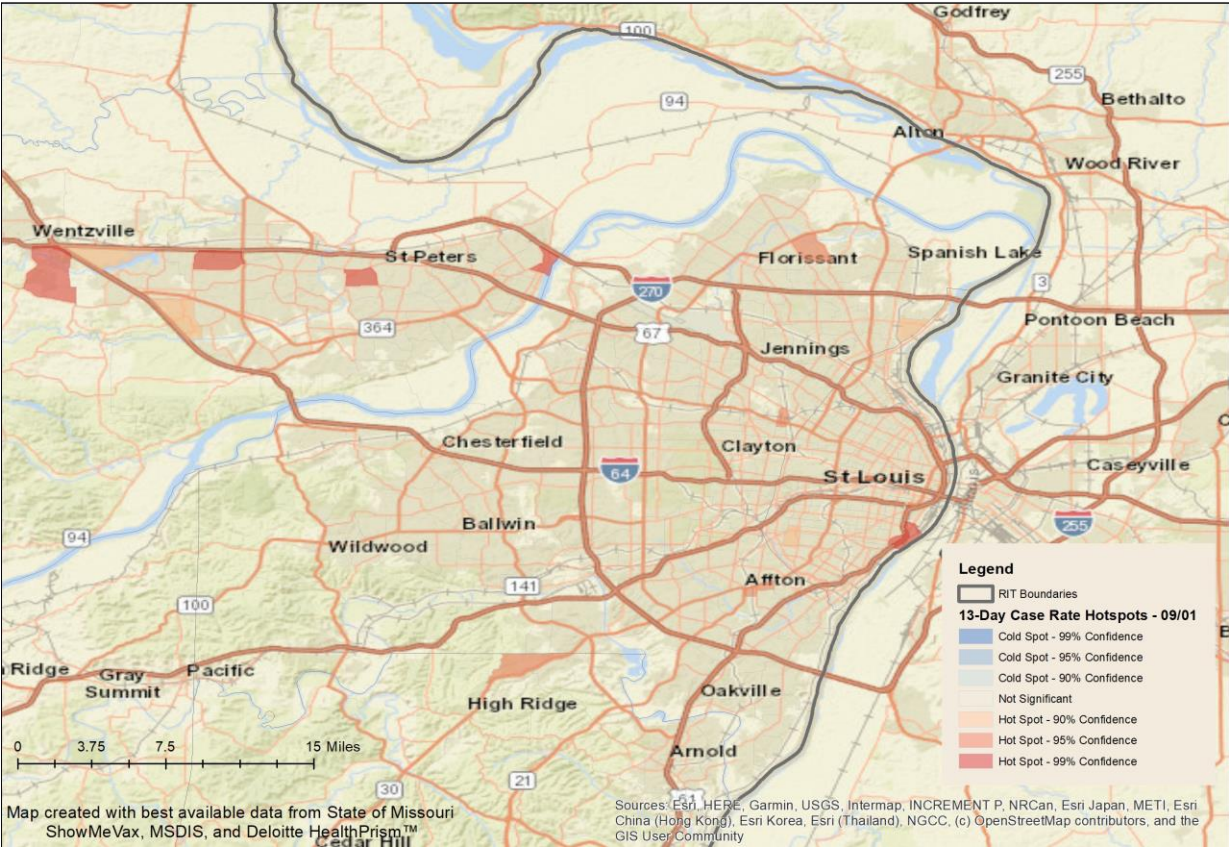
Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 9/2/21. Previous 2-week change view provided in the Appendix, along with the number of hotspots per region, and the methodology, data sources, and limitations. *Change in case burden is typically provided as 14-day delta but due to timing of data receipt, updated to 13-day for this week.

For the time period between 8/20/21 and 9/1/21, case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the left for Kansas City and on the right for St. Louis

13-Day Case Rate Hotspots
Kansas City Metro - 09/01/21



13-Day Case Rate Hotspots
St. Louis Metro - 09/01/21



Case rate hotspots persisted in the core of **Kansas City** (11 within I-435) and **St Louis** (4 inside I-270), on par with last week

The surge in cases in **Wentzville** and **St. Peters** (outside St. Louis) has persisted for 3 weeks running

In **Kansas City**, 8 of 11 case rate hotspots are within the **vulnerable section** of the SE I-435 corridor (according to the COVID-19 Vulnerability Index), down from last week

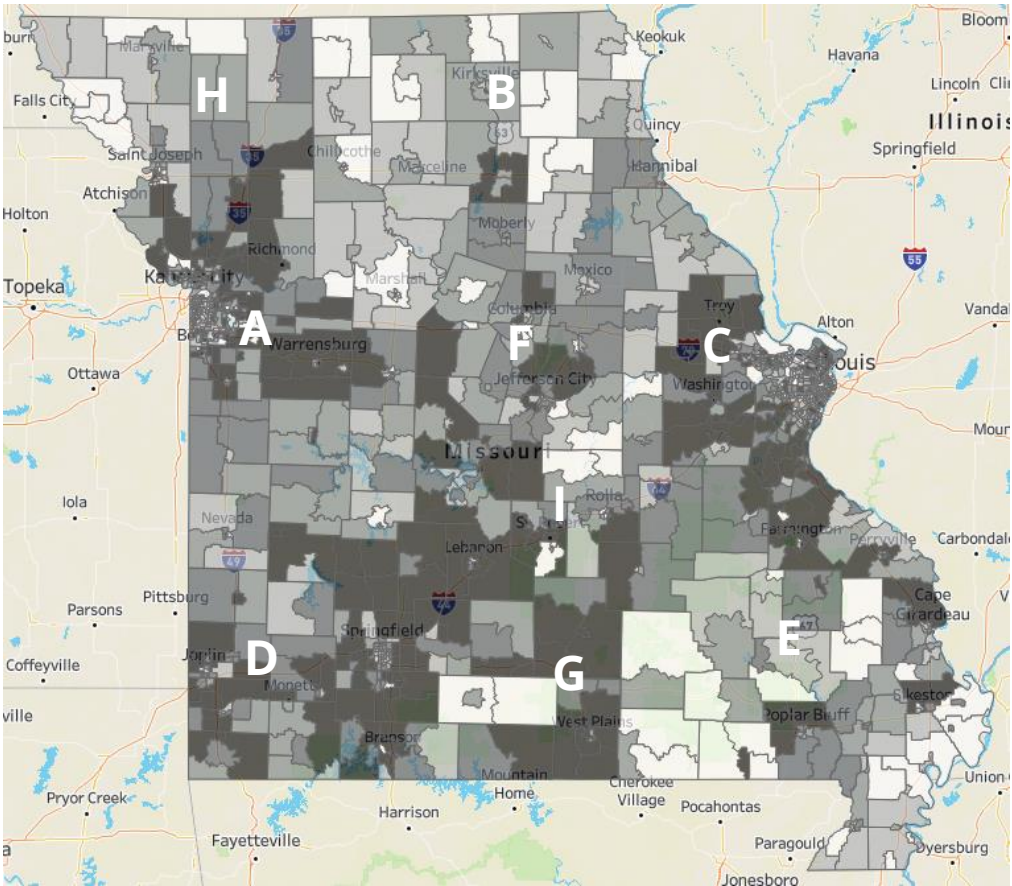
Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 9/2/21. Previous 2-week change view provided in the Appendix, along with the number of hotspots per region, and the methodology, data sources, and limitations. *Change in case burden is typically provided as 14-day delta but due to timing of data receipt, updated to 13-day for this week.

Darker shades in the map on the left indicate Census Tracts with larger vaccination gaps, with regional drill downs for Kansas City and St. Louis provided on the right

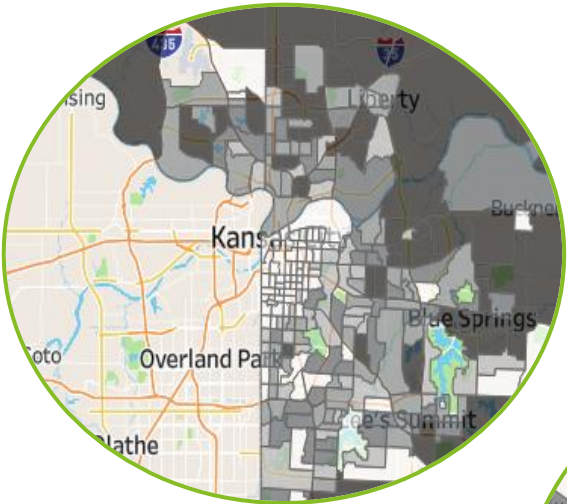
VACCINATION GAP (#)

Vaccination Gap Quintiles (#)

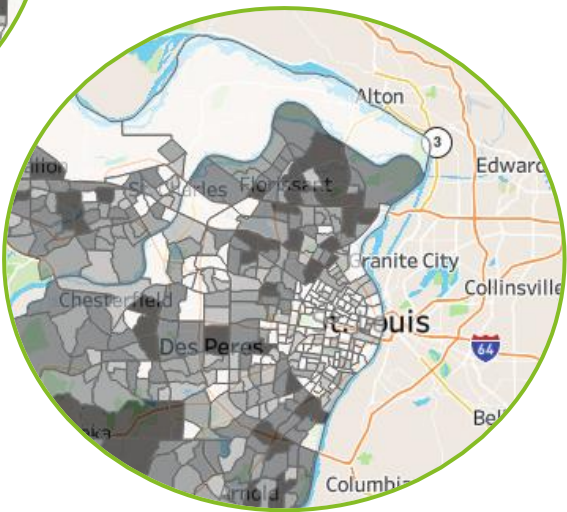
- 0 – 920
- 924 – 1,351
- 1,353 – 1,834
- 1,836 – 2,417
- 2,420 – 6,370



Kansas City



St. Louis



Areas with the **largest vaccination gaps** continue to align with the **more populated areas** across Missouri – typically surrounding urban areas

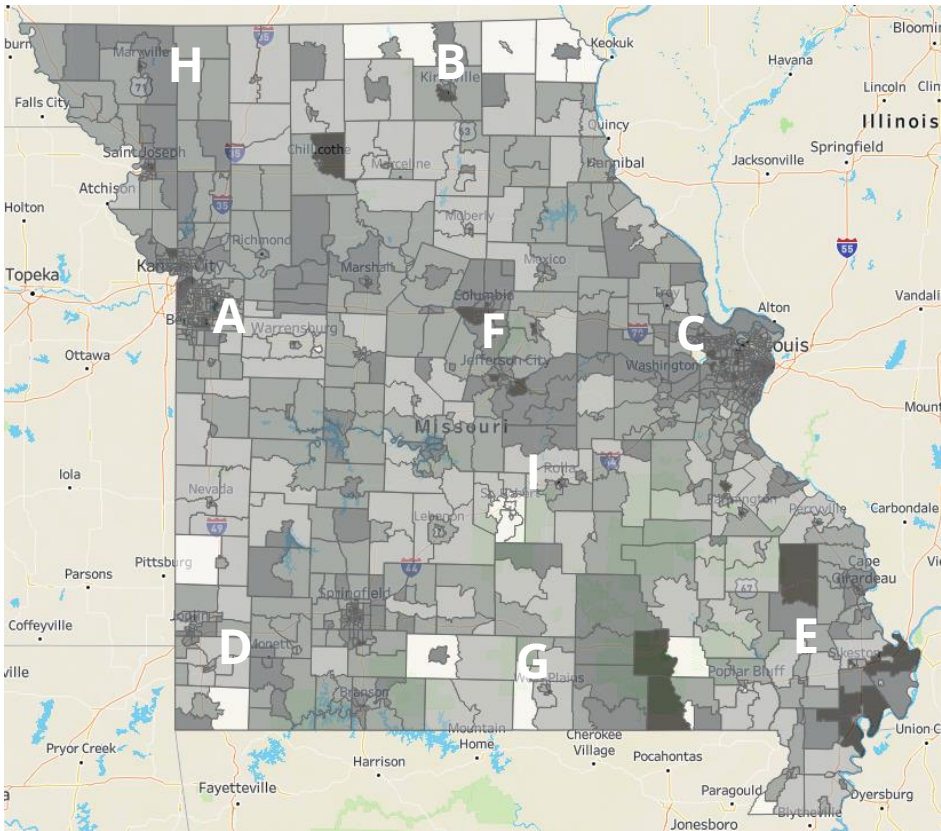
Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 9/2/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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Darker shades on the map on the left indicate Census Tracts with higher percentages of residents who have initiated vaccination – with regional drill downs for Kansas City and St. Louis labeled to the right

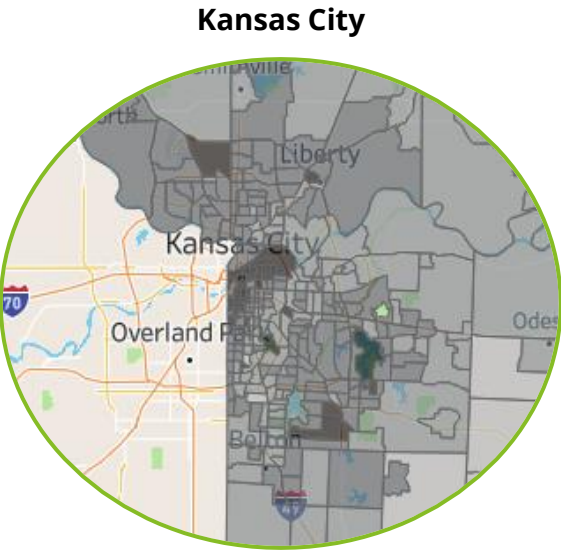
PERCENT WITH 1 DOSE (%)

- Vaccinated Categories (%)
- 0.0% - 29.9%
 - 30.0% - 39.9%
 - 40.0% - 49.9%
 - 50.0% - 69.9%
 - 70.0%+ (Highest)



3.7% (188K) ▼

Est. Amount of
18+ Population that has
Received Dose 1 but not Dose 2



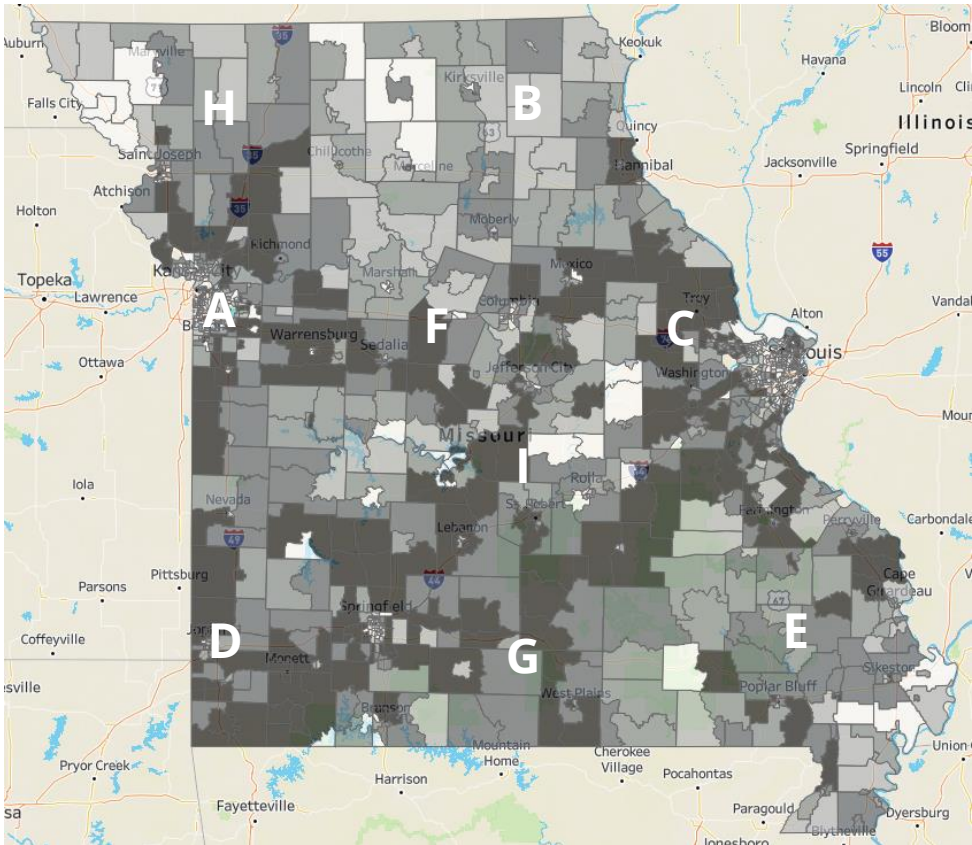
Census Tracts with the **lowest percent vaccinated** are concentrated in more **rural areas** in Regions B, D, I, & G

Darker shades on the map on the left indicate counties with larger vaccination gaps with regional drill downs for Kansas City and St. Louis labeled to the right

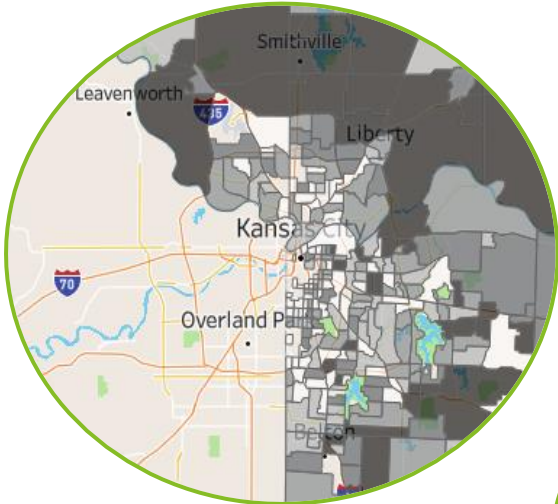
VACCINATION GAP (#)

Vaccination Gap Quintiles (#)

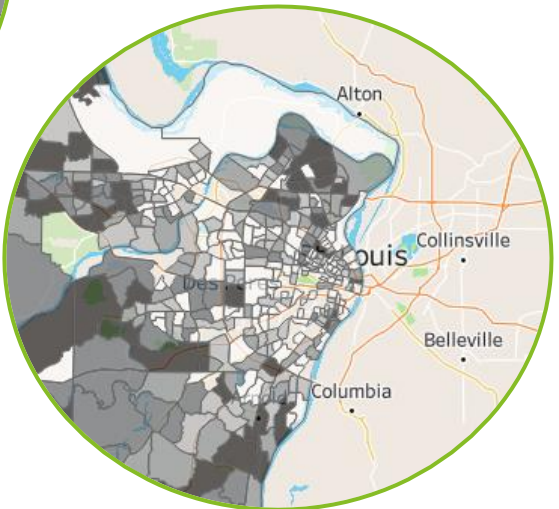
- 0 – 110
- 111 – 169
- 170 – 236
- 237 – 330
- 331 – 797



Kansas City



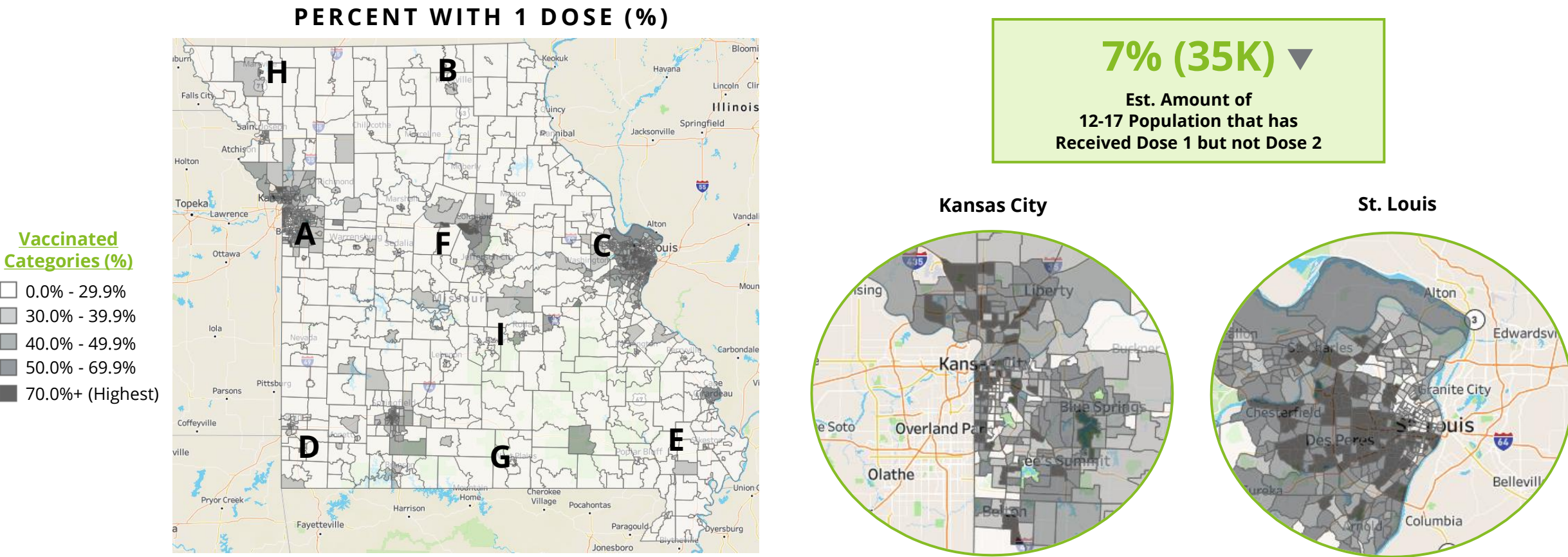
St. Louis



Similar trends persist for the 12-17 as with the 18+ population – **more populated/urban areas have the largest number of unvaccinated**
Region C continues to have the **largest vaccination gap** (90,175) for the 12-17 population

Note: Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/26/2021. All vaccinations tagged to the “<18” age group were assumed to be between ages 12-17. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

Darker shades on the map on the left indicate counties with higher percentages of residents who have initiated vaccination – with regional drill downs for Kansas City and St. Louis labeled to the right

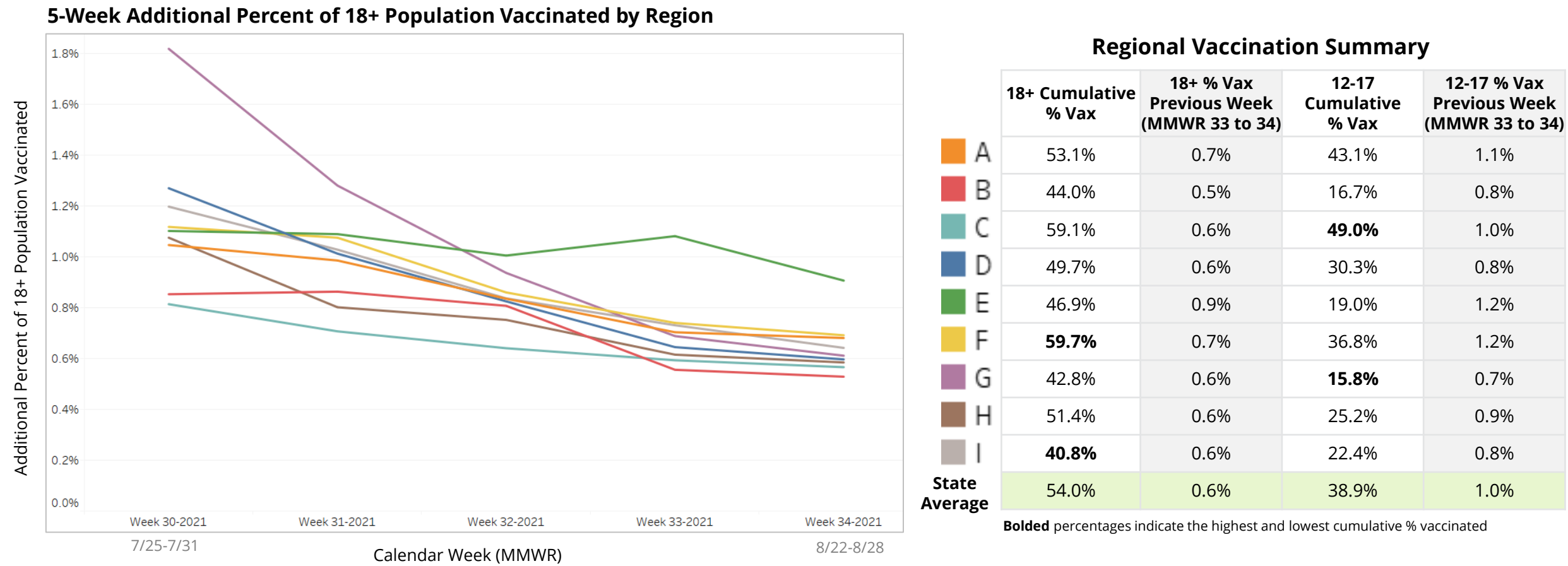


The 12-17 cohort continues to **lag behind** 18+ – **Region C** has the **highest** percent vaccinated for this group (49% compared to 59% for 18+), while **Region G** has the **lowest** (16% compared to 43% for 18+)

Urban areas tend to have **higher rates of vaccine uptake**, although the stark divide is **more apparent in the 12-17 cohort than 18+**

Note: Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/26/2021. All vaccinations tagged to the “<18” age group were assumed to be between ages 12-17. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

The visualization and table below display weekly and cumulative vaccination rates at the regional level. Week 34 (8/22 – 8/28) is the most recent complete week

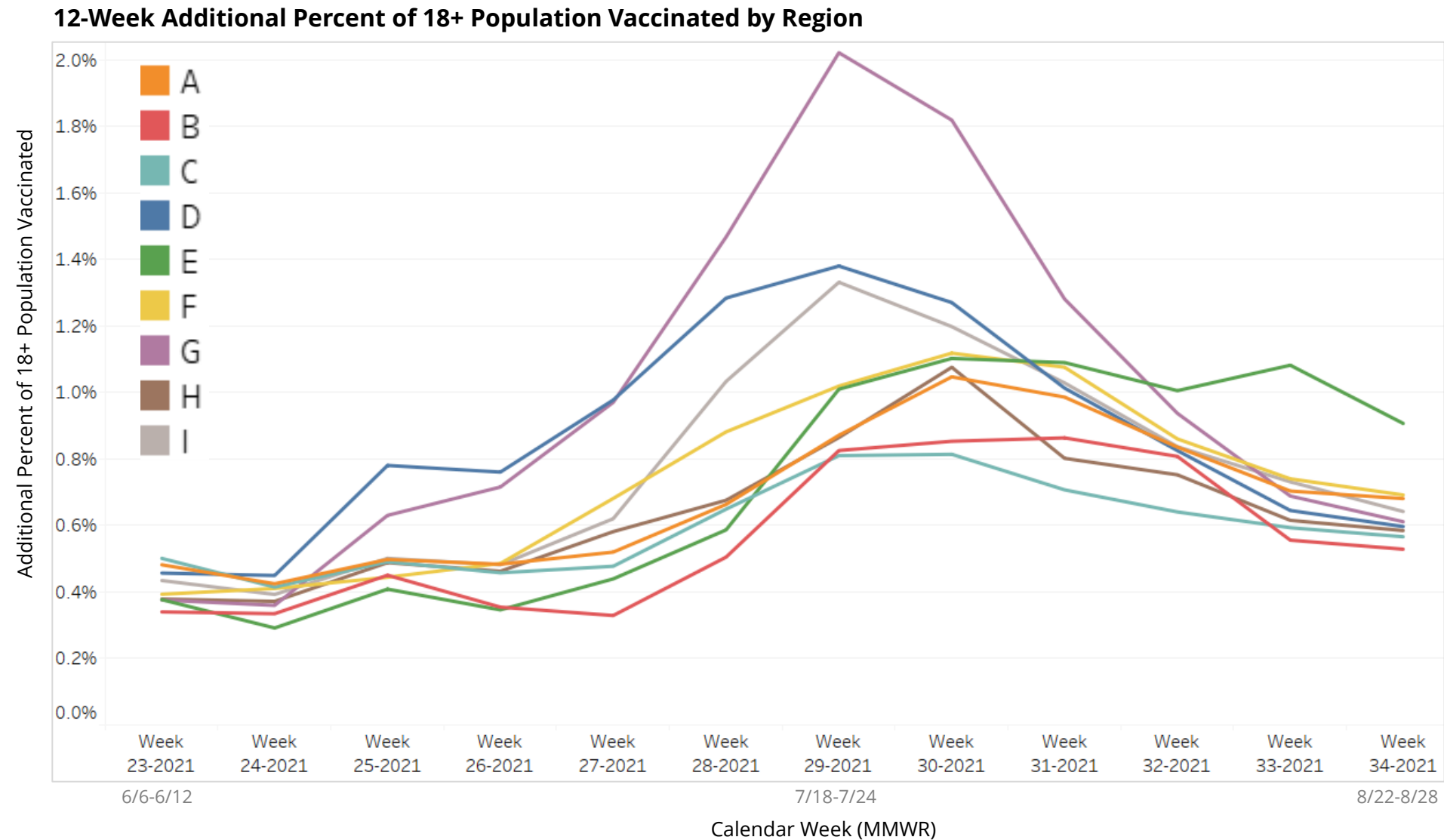


Vaccine initiations fell for the **4th straight week** with a **slight decrease** in the **18+ group (-6%)** and a **dramatic decrease** in the **12-17 population (-44%)**

There continues to be **greater variation in vaccination for the 12-17 population** with three Regions (G, B, and E) **less than half the state average**

Note: All weeks are calendar weeks, defined by SMV using MMWR week, where Week 34 is 8/22 – 8/28. Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated, and are from 9/2/2021. J&J vaccinations are coded as both dose 1 and dose 2. Methodology, data sources, and limitations are available in the Appendix.

The visualization below displays weekly vaccination rates at the regional level. Week 34 (8/22 – 8/28) is the most recent complete week

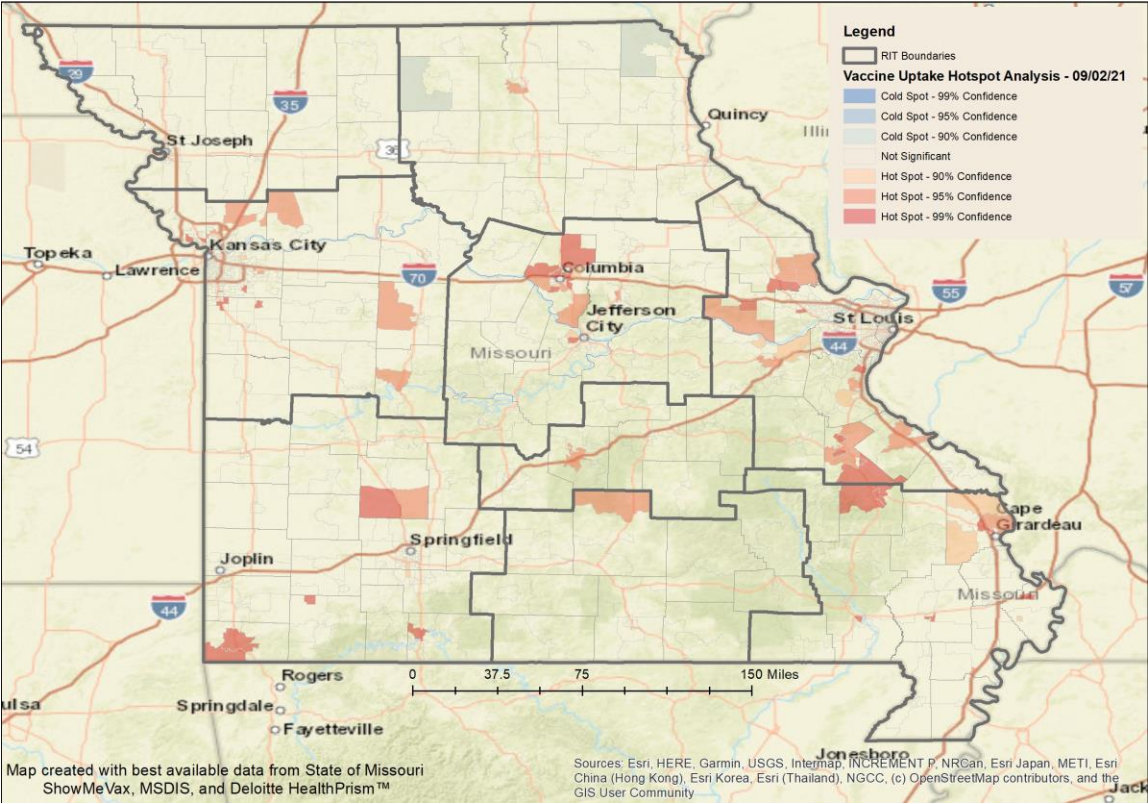


- Vaccinations increased in **early July** a few weeks after **cases surged** in Missouri, largely due to the delta variant
- Since the peak in vaccine initiations during Weeks 29-30, weekly vaccinations **have decreased ~38%** (from 51.1k to 31.6k)

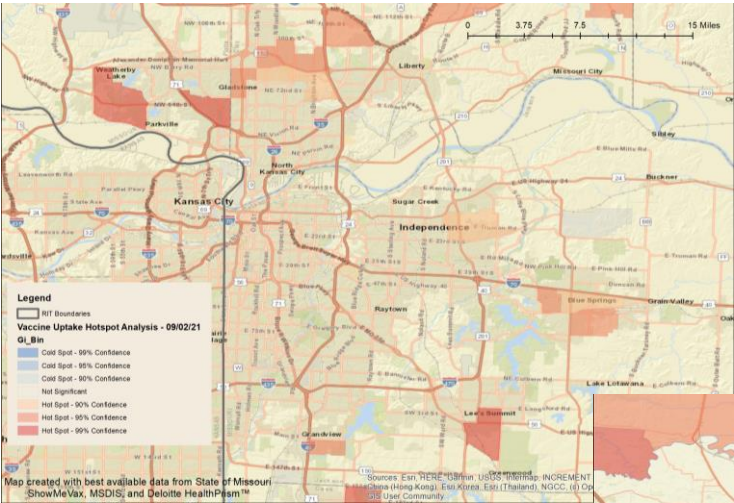
Note: All weeks are calendar weeks, defined by SMV using MMWR week, where Week 34 is 8/22 – 8/28. Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated, and are from 9/2/2021. J&J vaccinations are coded as both dose 1 and dose 2. Methodology, data sources, and limitations are available in the Appendix.

Vaccination uptake hotspots for 08/27 - 09/02 are displayed below in red. These vaccine uptake hotspots represent the communities that far exceeded the State average for the dates indicated

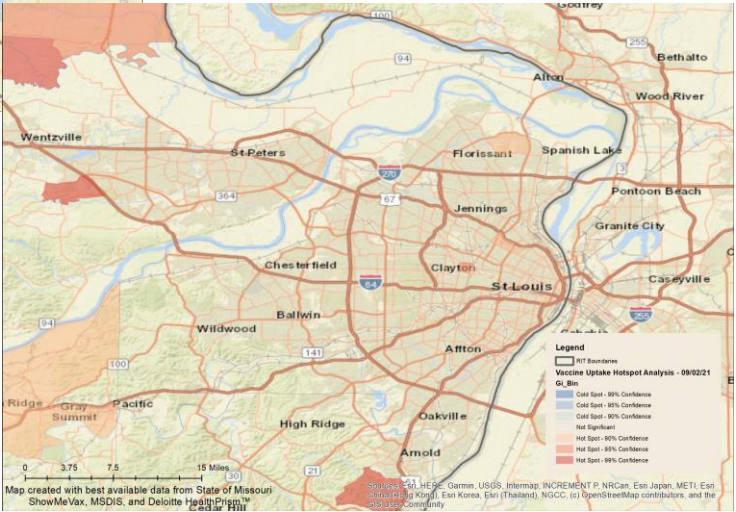
Vaccine Uptake Desert Analysis
State of Missouri - 09/02/21



Kansas City Metro



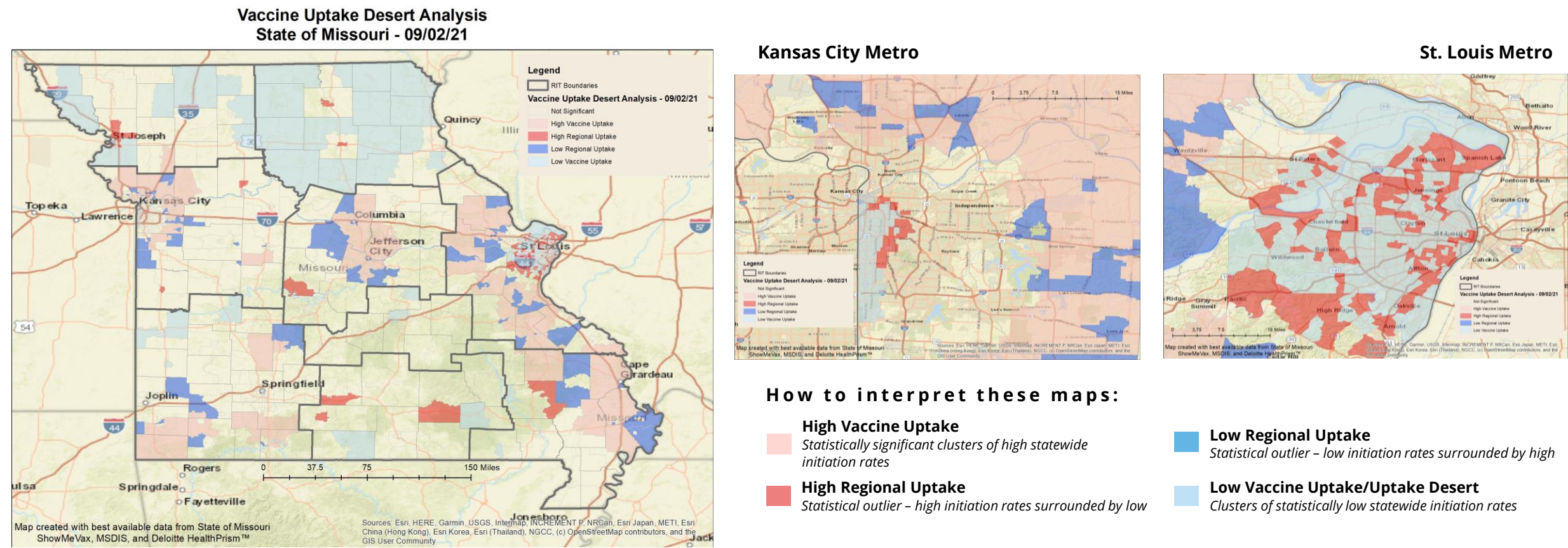
St. Louis Metro



Regions A, C, E, & F contain the **largest percentage (86%)** of vaccine uptake hotspots throughout the State – mainly in the Census Tracts in **proximity** to **St. Louis, Kansas City, Columbia/Jefferson City, and Cape Girardeau**

Uptake hotspots continue to be **linked to major transportation routes** (I-44, I-70, I-35, I-55, US 67 and US 65)

Vaccination uptake deserts are displayed in shades of blue from 8/27 - 9/02, indicating Census Tracts where the weekly vaccine uptake is significantly lower than State and/or regional averages – a more sensitive test of differences in community-level uptake in comparison to the hotspot analysis



Majority of vaccine uptake deserts (by **area**) exist in Regions **B and H**; majority of vaccine uptake deserts (by **population**) are in **urban** clusters (Kansas City, Springfield and St. Louis)

Suburban and commuting regions surrounding **Kansas City, Columbia/Jefferson City, and St. Louis remained leaders in vaccine initiation**

Regional and statewide highs in vaccine initiations in Regions D and E are in locations with **large vaccine gaps**

Note: Data on vaccinated individuals is based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, includes all ages, and indicates the residence of the individual vaccinated, and is as of 9/2/21. Methodology, data sources, and limitations are available in the Appendix.

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To support comparison between Regions and a deeper understanding of analyses throughout this report, the table below provides information on COVID-19 cases, cumulative vaccine uptake across age groups, and recent vaccine uptake trends at the regional level

Regional **COVID-19 case data** to supplement slides 4-5

Regional **vaccine uptake metrics** both cumulatively and over time to supplement slides 6-13

Region	Cumulative COVID-19 Case Burden (# per 100k)*	13-Day Change in COVID-19 Case Burden (%)*	COVID-19 Case Rate Hotspots (#)	18+ Cumulative Vax (%)	18+ Vax Previous Week (%)	12-17 Cumulative Vax (%)	12-17 Vax Previous Week (%)	Vaccine Uptake Deserts (#)	Vaccine Uptake Hotspots (#)
A	10,249	1.91%	26	53.1%	0.7%	43.1%	1.1%	56	21
B	9,355	1.27%	1	44.0%	0.5%	16.7%	0.8%	39	1
C	9,769	1.62%	21	59.1%	0.6%	49.0%	1.0%	251	25
D	11,127	1.10%	4	49.7%	0.6%	30.3%	0.8%	14	9
E	10,932	2.51%	18	46.9%	0.9%	19.0%	1.2%	2	12
F	11,909	1.51%	5	59.7%	0.7%	36.8%	1.2%	0	17
G	9,109	1.30%	2	42.8%	0.6%	15.8%	0.7%	2	1
H	10,246	1.41%	2	51.4%	0.6%	25.2%	0.9%	32	0
I	10,038	1.58%	3	40.8%	0.6%	22.4%	0.8%	2	1

**Both the cumulative COVID-19 Case Burden and Change in COVID-19 Case Burden were weighted averages using ACS total population. Change in case burden is typically provided as 14-day delta but due to timing of data receipt, updated to 13-day for this week.*
Note: Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual (18+) vaccinated, and as of 9/2/21. COVID-19 case rate provided by the State of Missouri as of 9/2/21. Methodology, data sources, and limitations are available in the Appendix.
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Region C Deep-Dive

As presented on 9/2

REGIONAL
& COUNTY
TRENDS

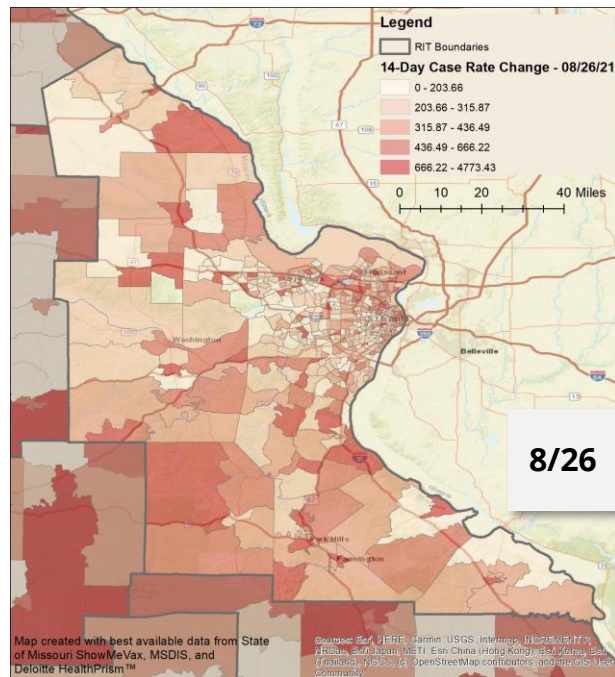
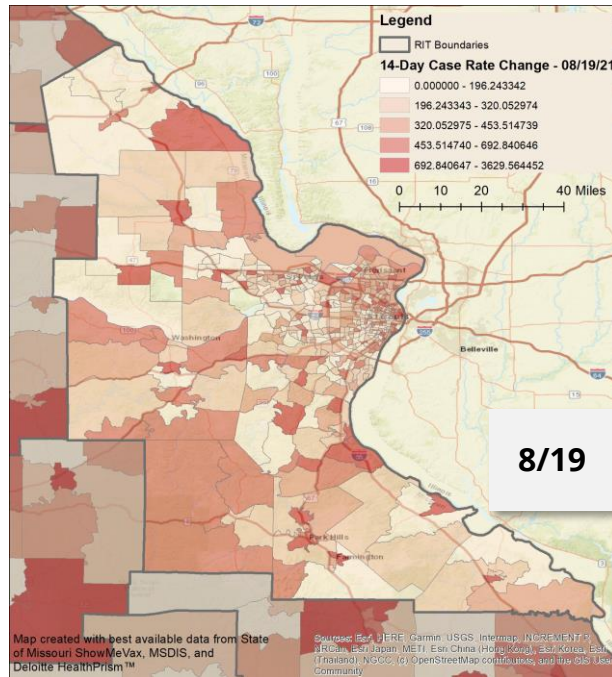
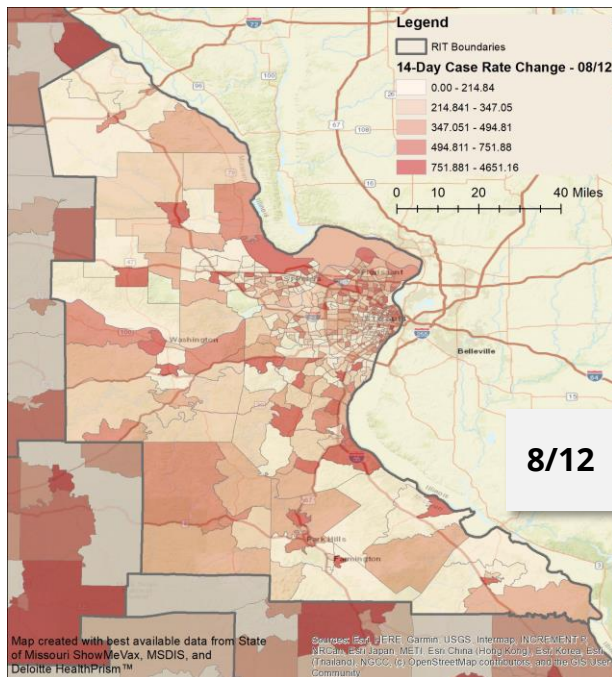
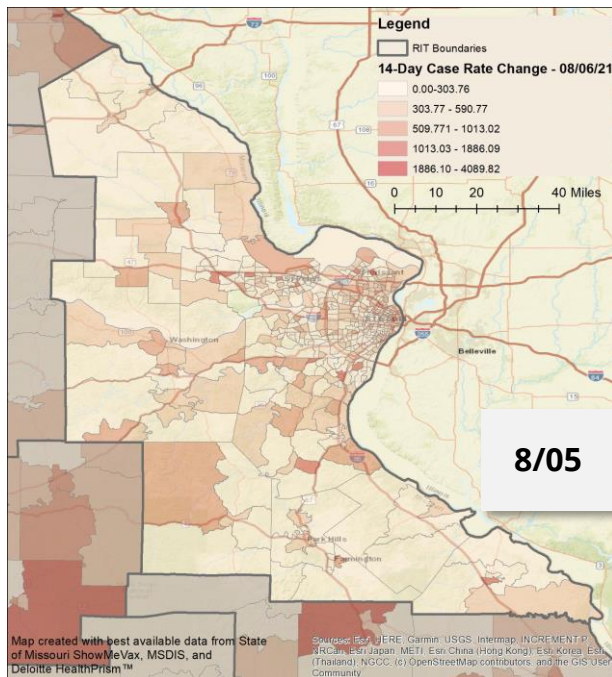
- Over the **past 4 weeks, case rates** have persistently **increased** in Region C – rapidly accelerating through 8/12-8/26, from comparatively low levels
- Case hotspots outside of St. Louis **emerge at central locations within counties** or at **transportation route junctions**, such as Farmington or Wentzville
- Region C is **the 2nd highest vaccinated**, but its share of weekly 18+ vaccinations has **decreased** over the last several months
- Vaccine uptake deserts cover **large portions of central St. Louis** – a ring of low uptake follows the **I-270 outer belt** and the outer reaches of **I-64 and I-70**

TARGET
CENSUS
TRACTS

- 10 CTs of focus were identified based on COVID-19 case rate change, % vaccinated, and the COVID-19 Vulnerability Index (CVI) – all 10 are within the **northern areas of St. Louis City/St. Louis County**, and have populations that are **less than 50% vaccinated**
- **All 10 Census Tracts identified are in the top 100 statewide** of our COVID-19 Vulnerability Index (CVI)
- Within these Census Tracts, residents tend to be more **racially diverse and religious**, have **lower levels of income and educational attainment**, and are **less likely to have health insurance** than the average Missourian

Note: Data is provided by the State of Missouri and includes 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 8/26/21. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/13/21 to 8/26/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

These visuals display the evolution of 14-day COVID-19 case rates over the past 4 full weeks (Aug 5th- Aug 26th) in Region C

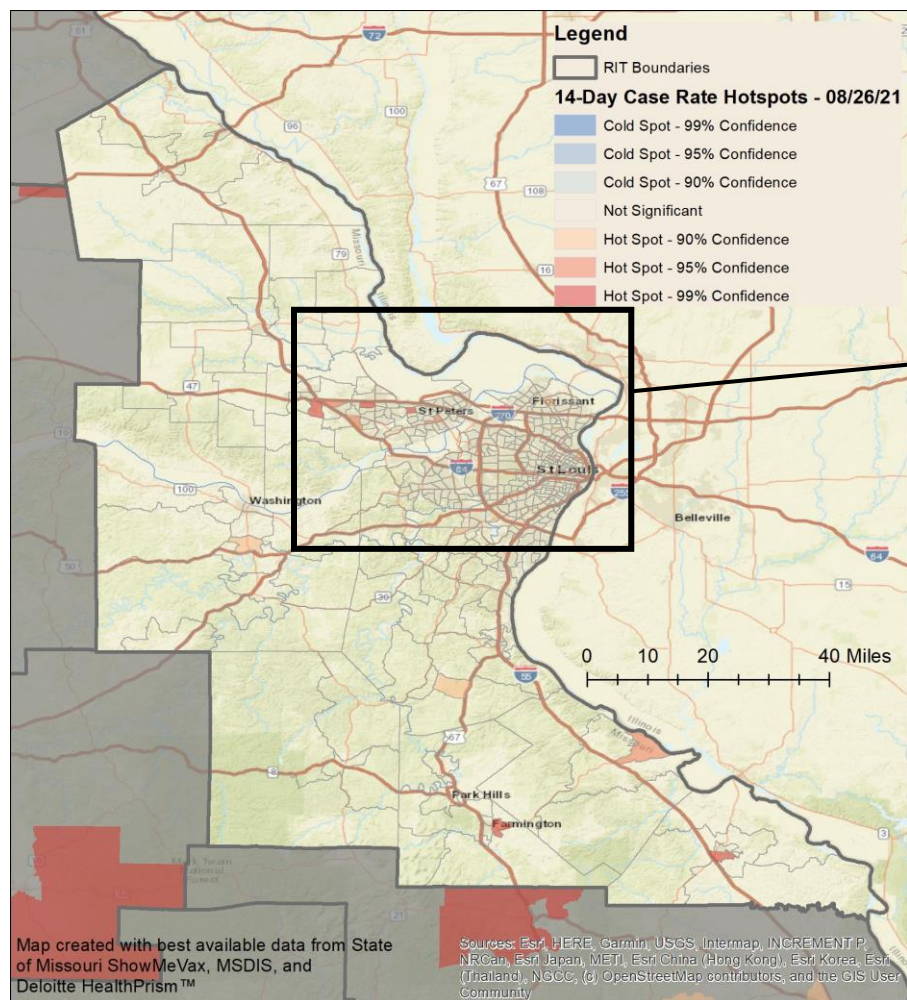


KEY OBSERVATIONS

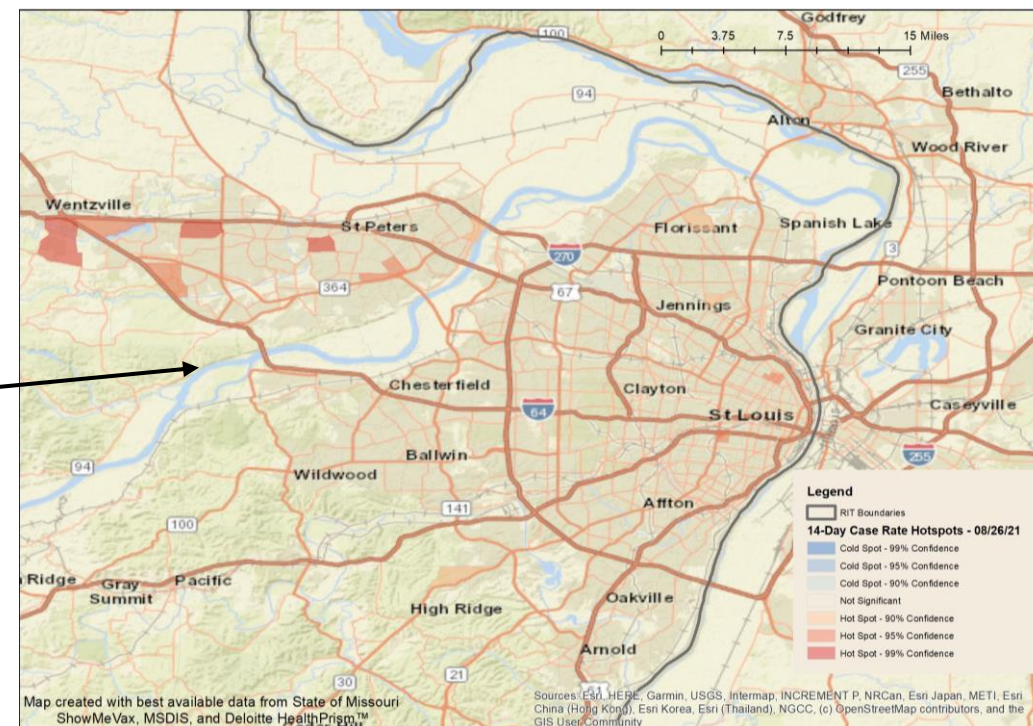
- Over the **past 4 weeks**, **case rates** have persistently **increased and spread across** Region C – rapidly accelerating the week of 8/12 and persisting in weeks following
- **Initial spread** followed major transportation routes (e.g. I-55, I-64, US 67, MO 100) and **secondary spread expanded outward** from those transportation routes
- The high levels of disease **spread across Region C** is potentially **extending to neighboring regions** (e.g. Region E)

The visual on the left depicts case rate hotspots – areas with statistically significant changes in case rates in comparison to surrounding areas – between 8/13-8/26

14-Day Case Rate Hotspots (8/13-8/26)



St. Louis Metro



KEY OBSERVATIONS

- For the two-week period through August 26th, case rate hotspots in Region C **followed transportation routes within and outside of St. Louis, specifically I-70**
- Hotspots outside of St. Louis **emerge at central locations within counties** or at **transportation route junctions**, such as Farmington or Wentzville
- Recent patterns of case spread in St. Louis reflect a **similar connection to transportation routes and activity centers across the State**

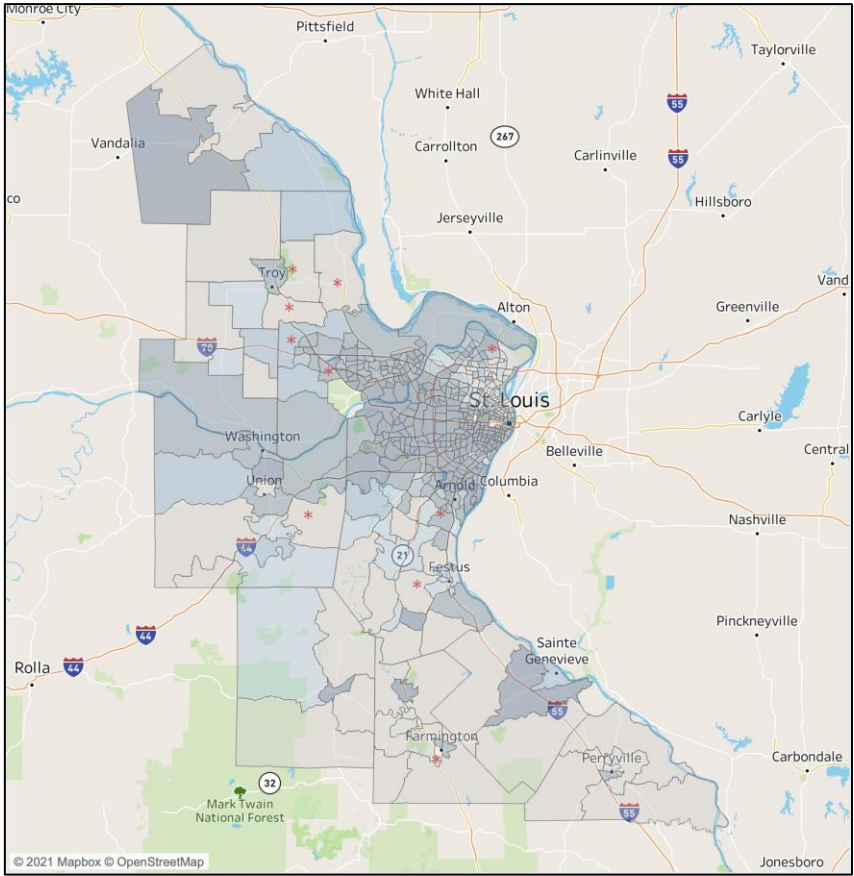
Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 08/26/21. See Appendix for methodology, data sources, and limitations.

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The visual and table below depict percent vaccinated and vaccination gap across Region C

Region C Percent Vaccinated (%)



Key

Vaccinated (%) | 484 CTs

- 0% - 29.9% | 80
- 30% - 39.9% | 33
- 40.0% - 49.9% | 32
- 50.0% - 69.9% | 107
- 70.0% - 99.9% | 232

*** Top 10 CTs by Vaccination Gap (#)**

Census Tracts by Lowest % Vaccinated				
Rank	Census Tract	County	Adult Population	% Vaccinated
Statewide Average			3,678	52.99%
Region C Average			4,098	58.47%
1	29189211500	St. Louis	3,097	33.58%
2	29189210200	St. Louis	4,234	33.80%
3	29189212102	St. Louis	2,286	34.73%
4	29221460500	Washington	3,288	34.91%
5	29189212101	St. Louis	3,295	36.48%
6	29221460100	Washington	5,486	36.66%
7	29510107500	St. Louis City	2,287	36.73%
8	29187950400	St. Francois	5,845	37.14%
9	29187950101	St. Francois	4,465	37.20%
10	29099700503	Jefferson	3,185	37.27%

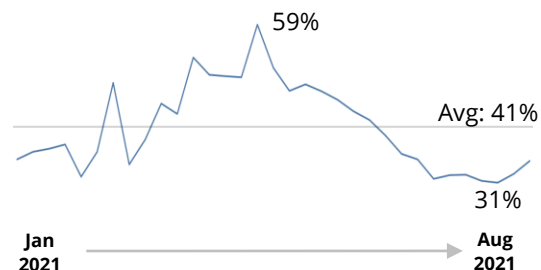
232 of 484 (48%) Census Tracts in Region C have over 70% of their populations vaccinated

Nine of the top 10 Census Tracts with the highest number of remaining unvaccinated are outside of the most urban areas

Note: Data provided by the State of Missouri and are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/26/2021. Methodology, data sources, and limitations are available in the Appendix.

Vaccine uptake deserts are shown in blue over a 4-week period, identifying Census Tracts where vaccine uptake for that time period was significantly lower than State average

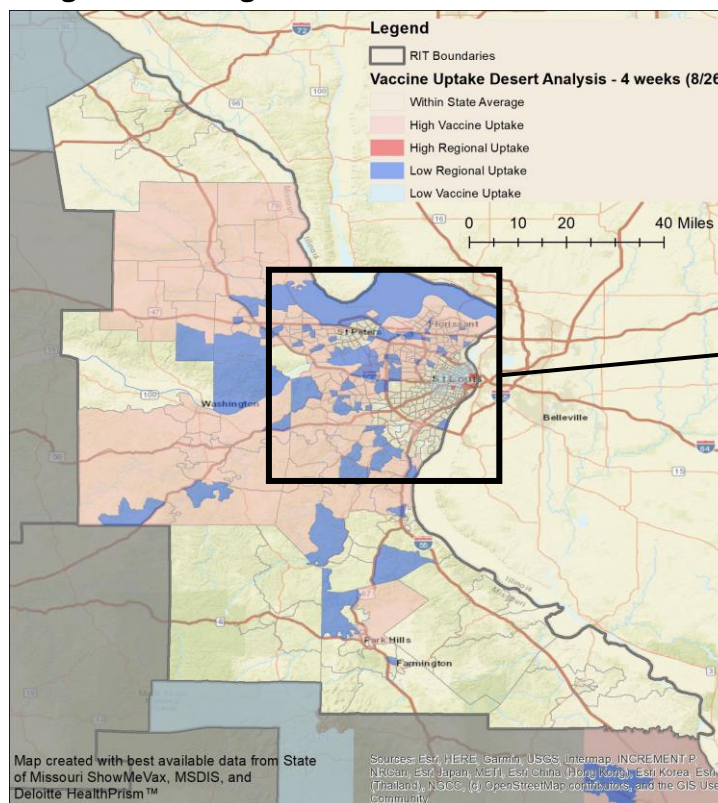
Region C Share of Missouri's 18+ Initiations



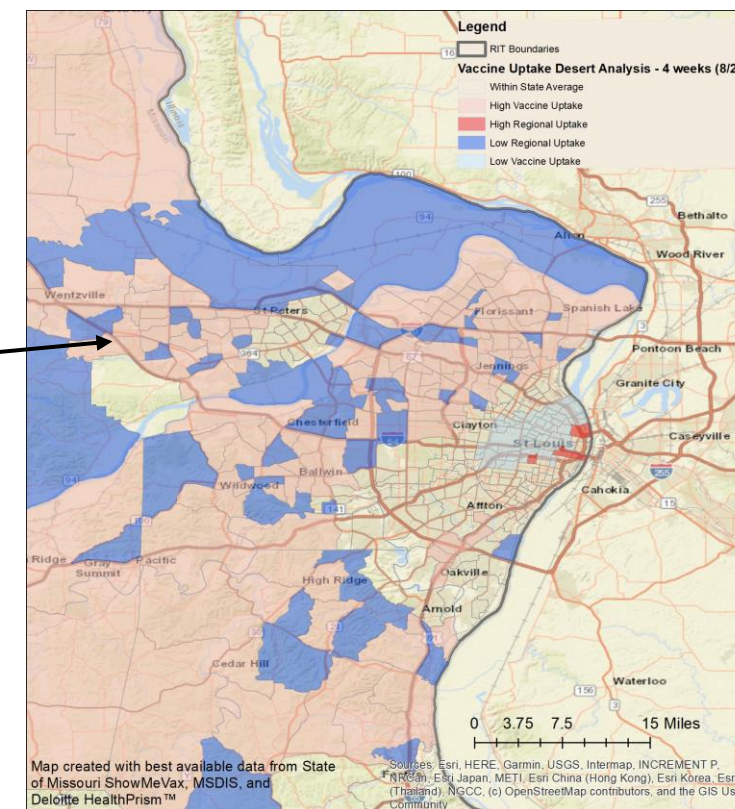
How to interpret these maps:

- High Vaccine Uptake**
Statistically significant clusters of high initiation rates in comparison to State average
- High Regional Vaccine Uptake**
Statistical outlier – high initiation rates surrounded by low
- Low Regional Vaccine Uptake**
Statistical outlier – low initiation rates surrounded by high
- Low Vaccine Uptake/Uptake Desert**
Clusters of statistically low initiation rates in comparison to State average

Vaccine Uptake Deserts Aug 5th - Aug 26th



St. Louis Metro



Region C is the **2nd highest vaccinated in the State**, but its share of weekly 18+ vaccinations has **decreased** over the last several months

Vaccine uptake deserts cover **large portions of central St. Louis** – a ring of **low uptake** follows the **I-270** outer belt and the outer reaches of **I-64 and I-70**

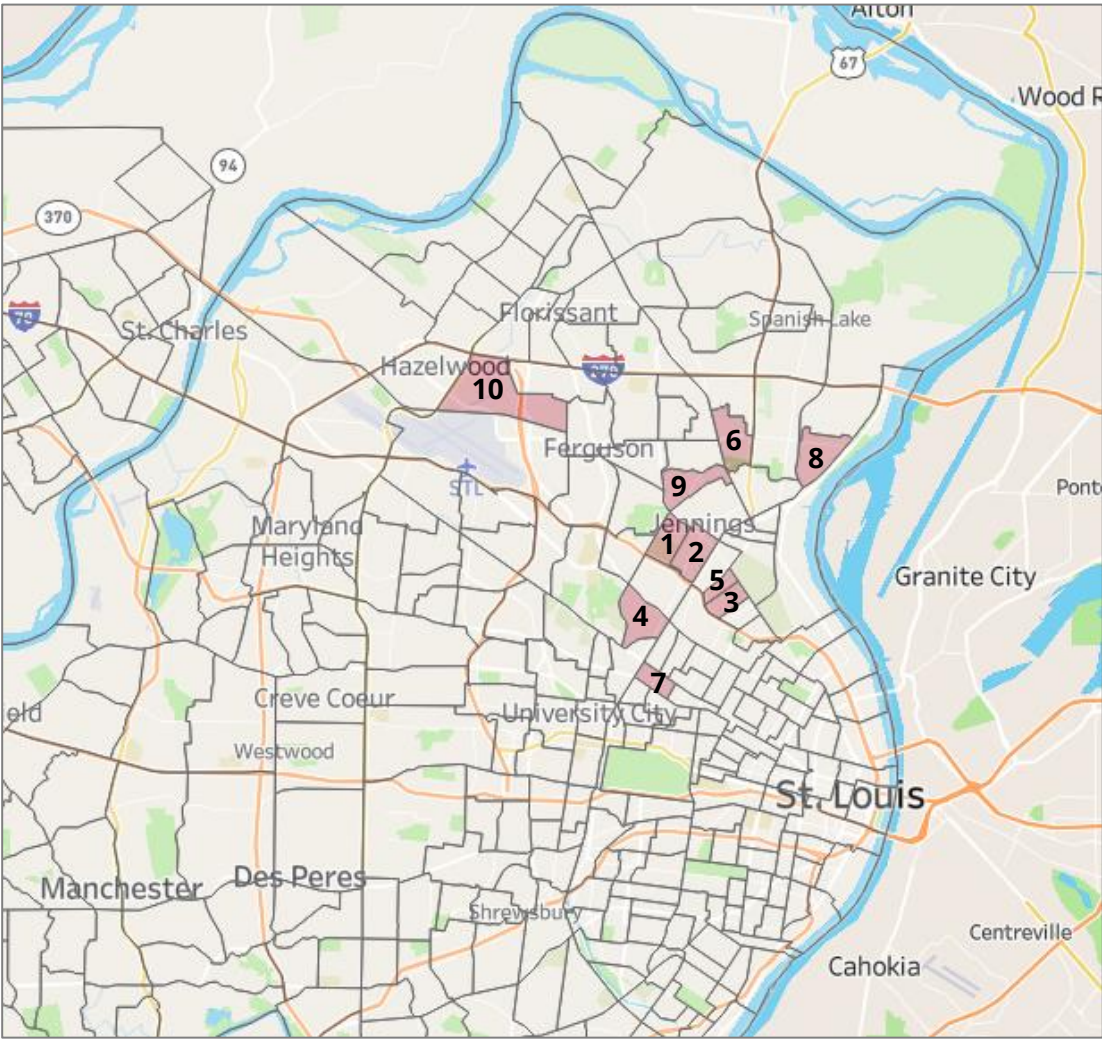
Northern and central communities connected to St. Louis via highway have shown **higher vaccine uptake**, potentially reinforcing an urban-suburban disconnect in uptake

Note: Vaccine uptake desert analyses employ Local Moran's I test for spatial autocorrelation. Data provided by the State of Missouri on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on residence of the individual vaccinated (all ages), and from 8/26/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

Target Census Tracts

Potential Areas to Focus Outreach Initiatives

The map below highlights Census Tracts that could be targeted for outreach within Region C



To identify **target tracts** in Region C, we analyzed relationships between:

- 1 14-Day COVID-19 case rate burden/change
- 2 Percent of population vaccinated
- 3 Ranking based on the COVID-19 Vulnerability Index (CVI)*

Using the above methodology, below are the **top 10 Census Tracts**, which are discussed further in the following slides:

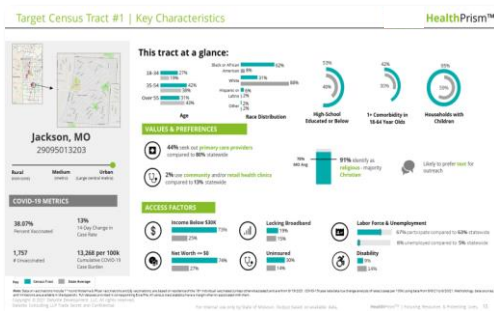
Rank	Census Tract	County
1	29189212102	St. Louis County
2	29189212101	St. Louis County
3	29510107400	St. Louis City
4	29189213800	St. Louis County
5	29510107200	St. Louis City
6	29189210502	St. Louis County
7	29510106100	St. Louis City
8	29189210300	St. Louis County
9	29189212002	St. Louis County
10	29189211500	St. Louis County

All 10 Census Tracts have an 18+ population that is **less than 50% vaccinated**

Note: Data are provided by the State of Missouri and include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on residence of the 18+ individual vaccinated (unless otherwise stated), and from 8/26/21. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/13/21 to 8/26/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

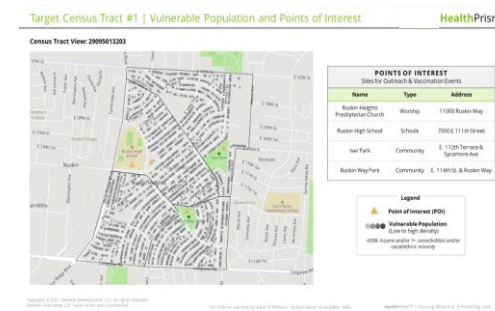
*CVI includes percent below 138% FPL, 1+ comorbidity, minority, cumulative case rate, and percent unvaccinated

Demographic and behavioral characteristics of each area, coupled with local points of interest (POIs), can enable understanding of local nuances to conduct more targeted outreach in a given community



What are the key characteristics of this population?

- ✓ Review COVID-19 metrics
- ✓ Develop a deeper understanding of the Census Tract's demographic traits, values/preferences, needs, and potential barriers to access



Where are optimal locations to conduct outreach?

- ✓ Pinpoint areas of high and low density for both vulnerable populations and sample Points of Interest
- ✓ Identify potential partners based on insights from the key characteristics and the Points of Interest list

The following intend to leverage local knowledge in combination with the local characteristics and POIs to enable targeted interventions that boost vaccine uptake

What are general considerations for outreach?

PREPARATION



Understand the population.

Make space for open dialogue to grasp local concerns. When possible, supplement quantitative data about the community with personal stories via listening sessions/ focus groups – ideally including local leaders.



Co-create solutions.

Collaborate with target communities to build action plans for their neighborhoods, highlighting the community's involvement – potentially resulting in higher buy-in and more tailored solutions.



Involve trusted messengers.

Use local expertise and key population characteristics to identify and involve community leaders, to build trust and get involved in outreach.

MESSAGING



Address concerns.

Work through fears and anxieties with empathy, providing factual information and being transparent on unknowns. Listening and acknowledging concerns can be especially effective when coming from the right trusted messenger.



Keep it simple.

Create materials that are easy to understand/culturally inclusive yet informative, especially for low literacy populations. Consider infographics with images and icons to convey the most important information.



Highlight personal stories.

Leveraging the power of narrative over statistics, share stories about people similar to the target community who *have* been vaccinated, highlighting how they overcame their concerns/barriers and how it has benefited them.

TAKING ACTION



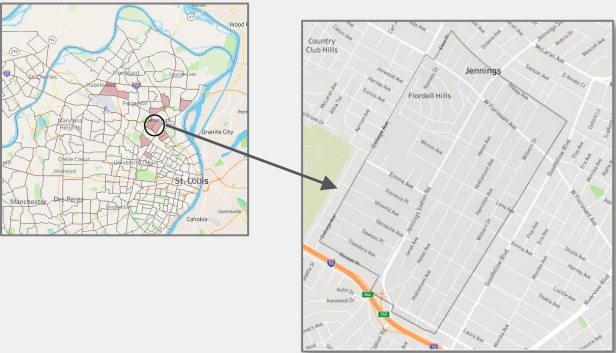
Remove barriers.

Meet people where they are – mobile clinics at homes, schools, and places of work with weekend/evening hours. Encourage local employers to offer paid time off and/or childcare to get the shot. Consider offering vaccination along with other routine care or social services.

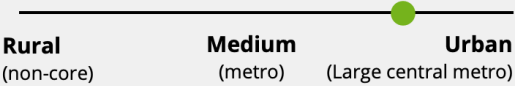


Make specific plans.

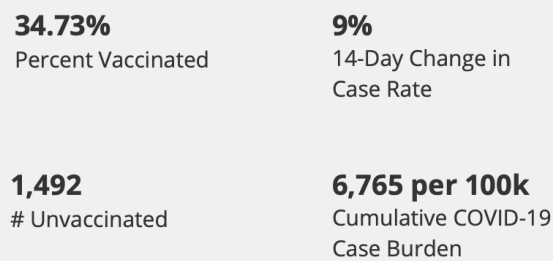
For people who intend to be vaccinated but haven't, breaking down the goal can help. Support taking concrete steps like booking an appointment and ask for barriers they might encounter (e.g., transportation) and work through solutions.



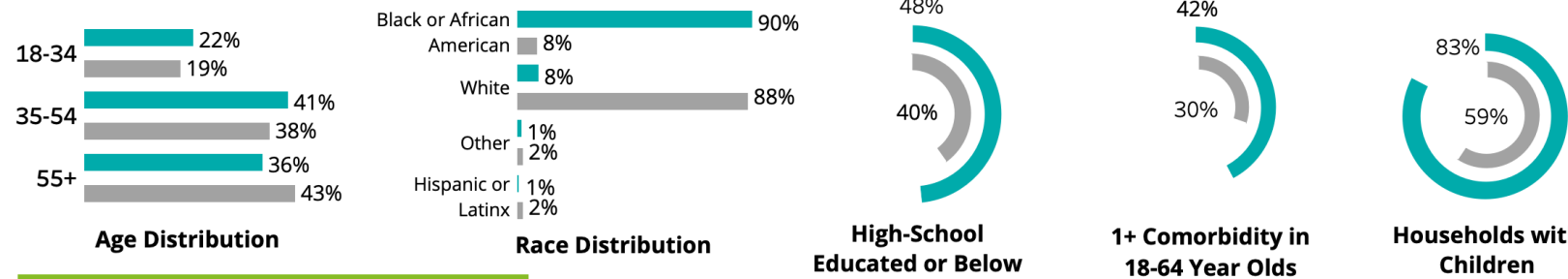
St. Louis, MO
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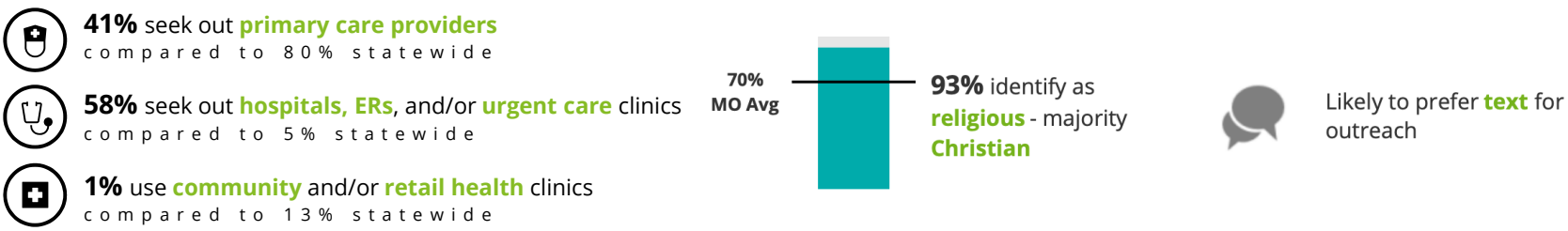
COVID-19 METRICS



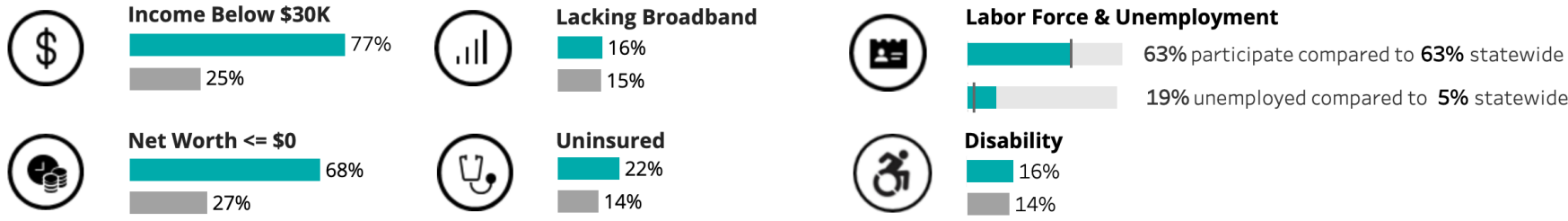
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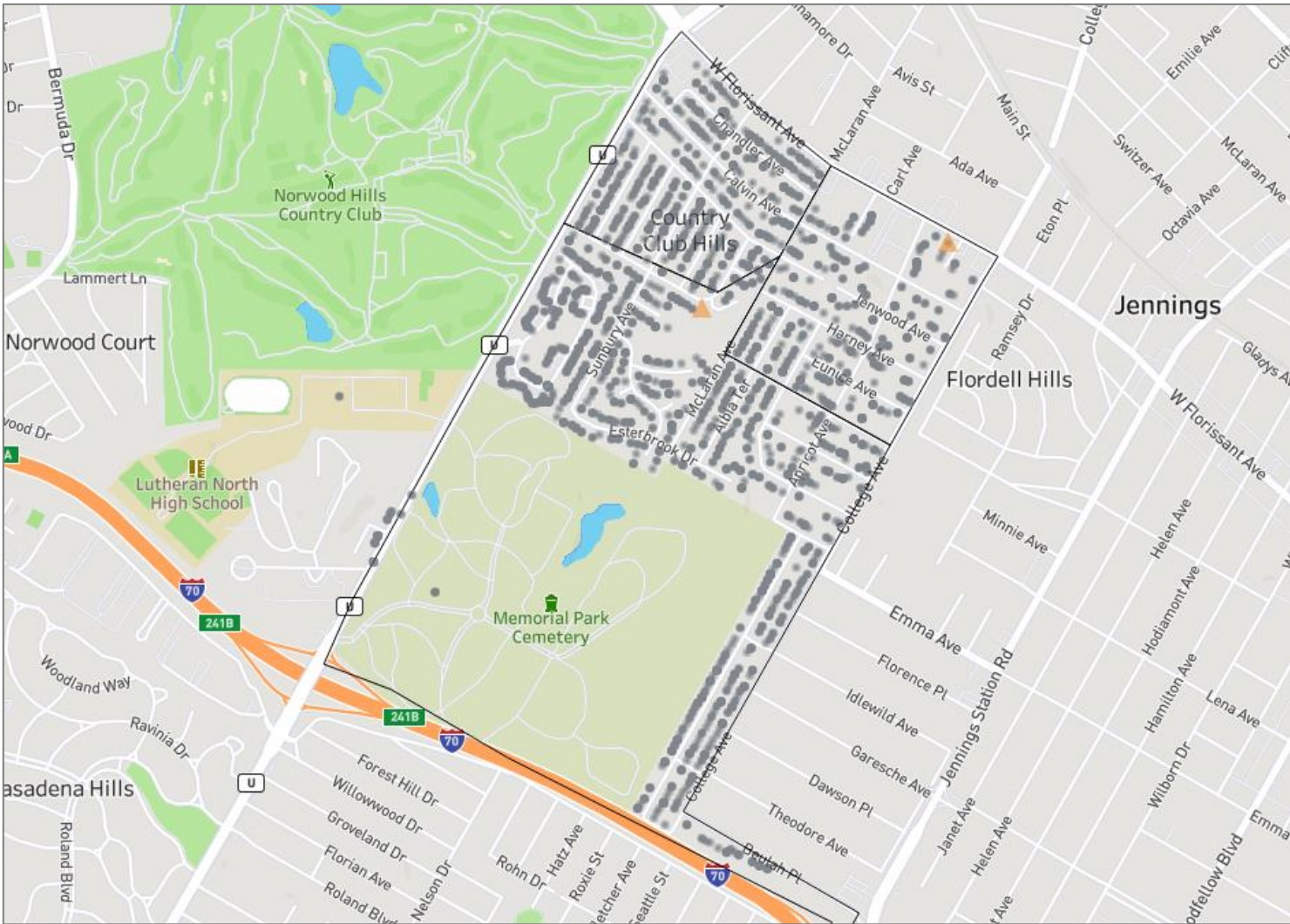
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29189212102
ST. LOUIS COUNTY

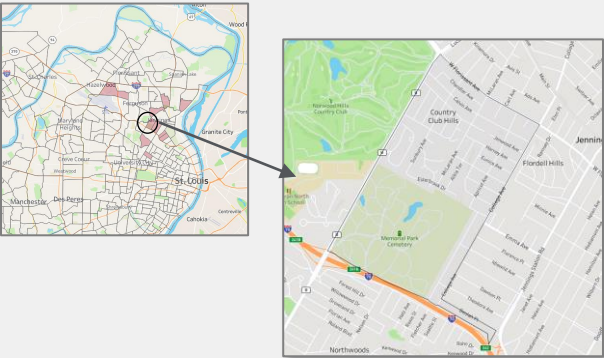


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Country Club Hills Police Department	Police / fire	7422 Eunice Ave
Kim Nails	Barber / salon	7224 West Florissant Ave

Legend

 Point of Interest (POI)

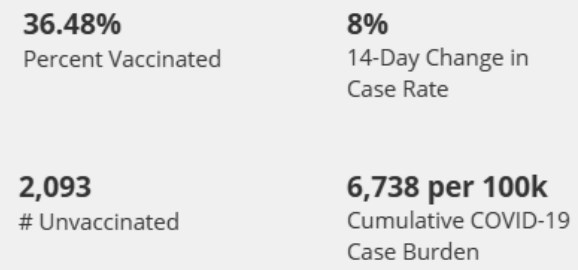
 Vulnerable Population
(Low to high density)
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



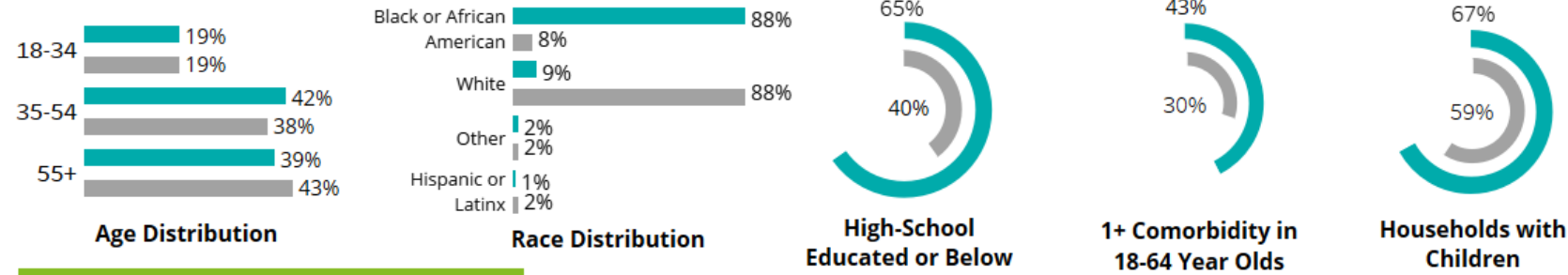
St. Louis, MO
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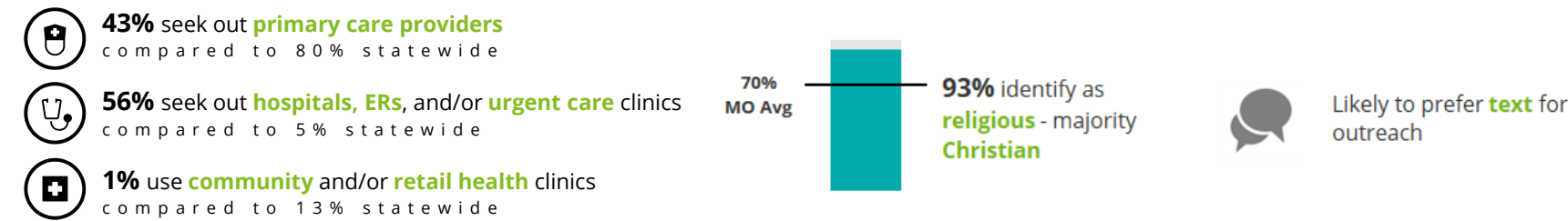
COVID-19 METRICS



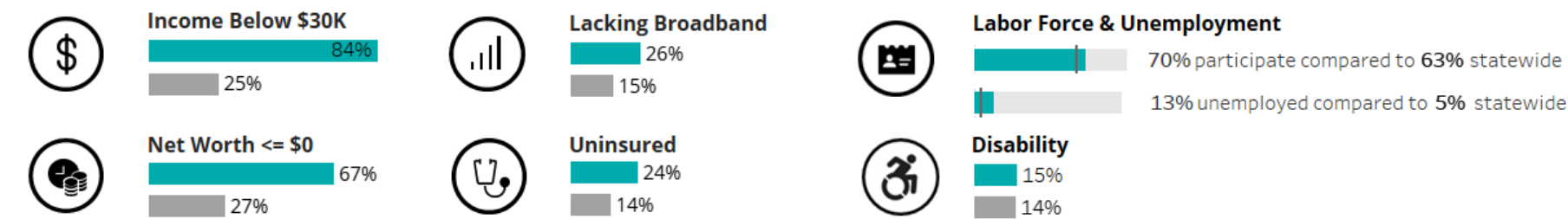
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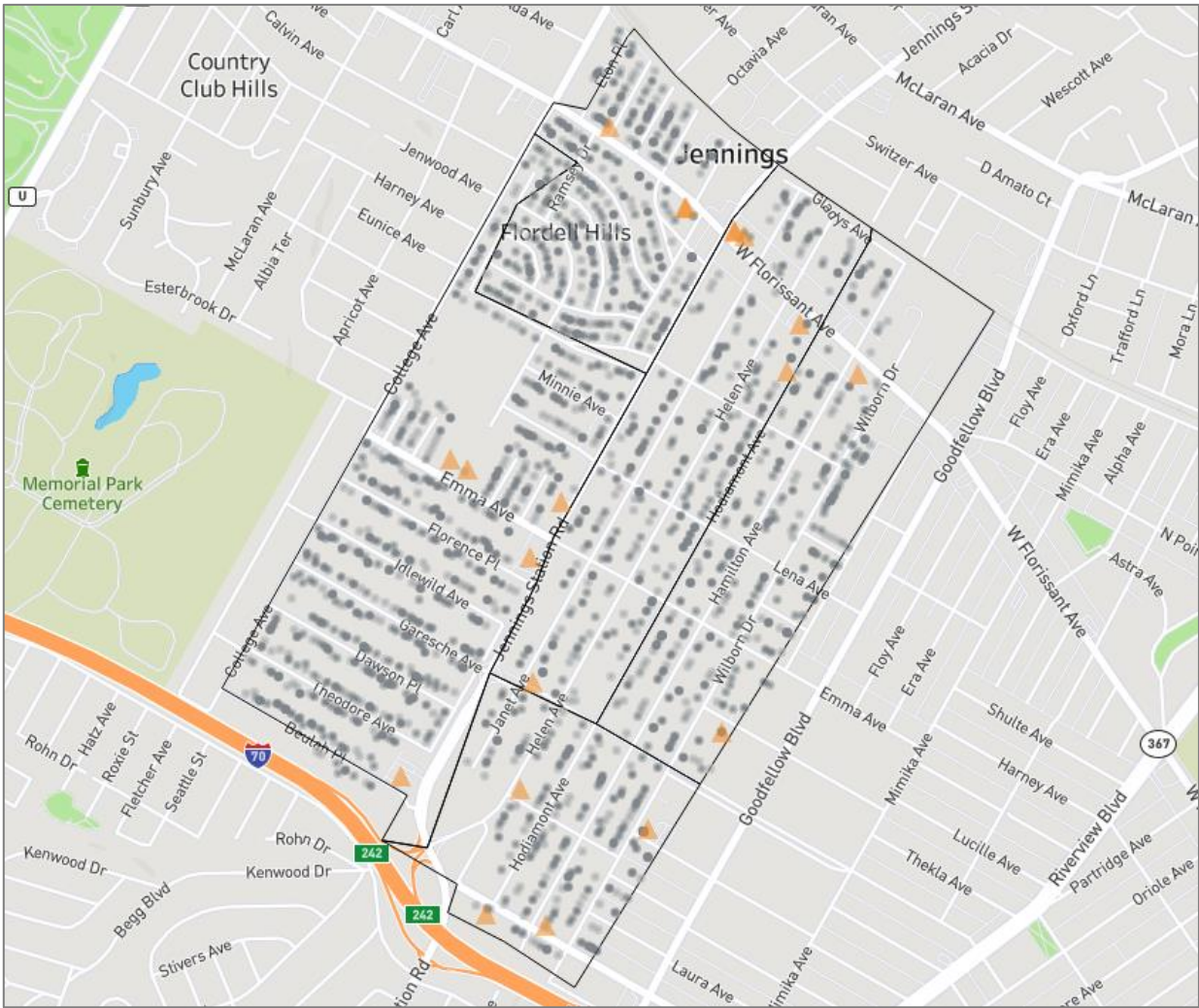
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29189212101
ST. LOUIS COUNTY

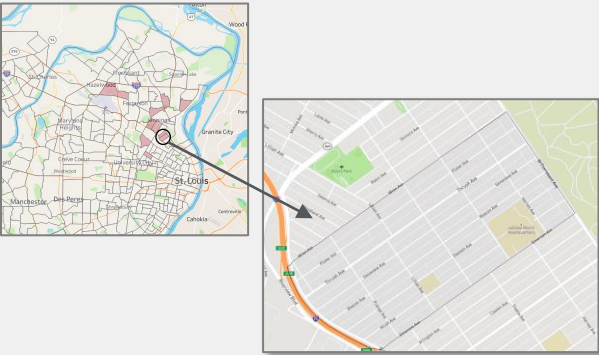


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Church Calvary West Missionary Baptist	Worship	5733 Hodiamont Ave
Dab's Beauty Salon	Barber / salon	7030 West Florissant Ave
Ecclesia of Christ	Worship	6349 Lalite Ave
Head Turners Hair & Nail Designs	Barber / salon	6342 Lucille Ave
Kingdom Studio Salon	Barber / salon	7123 West Florissant Ave
Lively Hope Church of God	Worship	6518 West Florissant Ave
Metropolitan Missionary Baptist Church of Jennings	Worship	5300 Helen Ave
Monument of Faith Church of God In Christ	Worship	5400 Janet Ave
Pam's Hair Design	Barber / salon	7032 West Florissant Ave
Word of Faith Foursquare Church	Worship	6923 West Florissant Ave

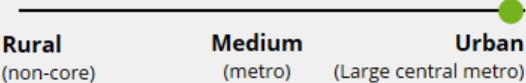
Legend

**Point of Interest (POI)**

**Vulnerable Population**
(Low to high density)
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



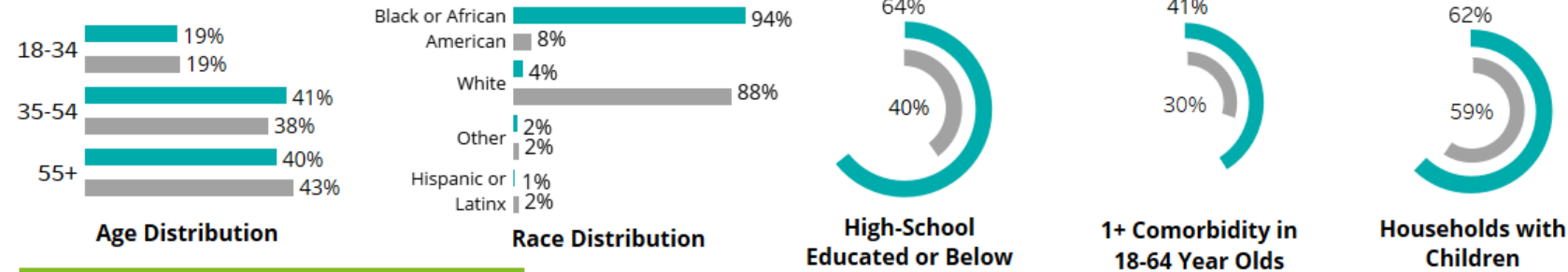
St. Louis City, MO
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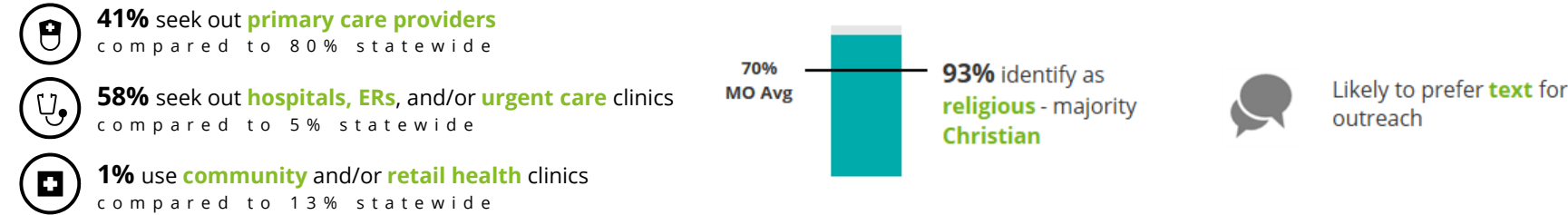
COVID-19 METRICS



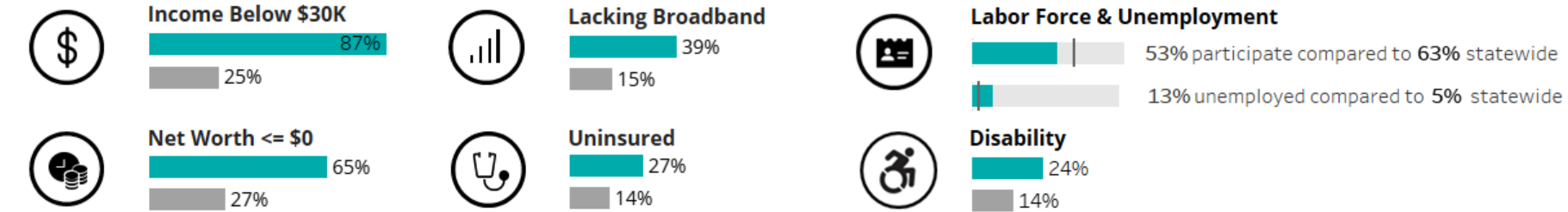
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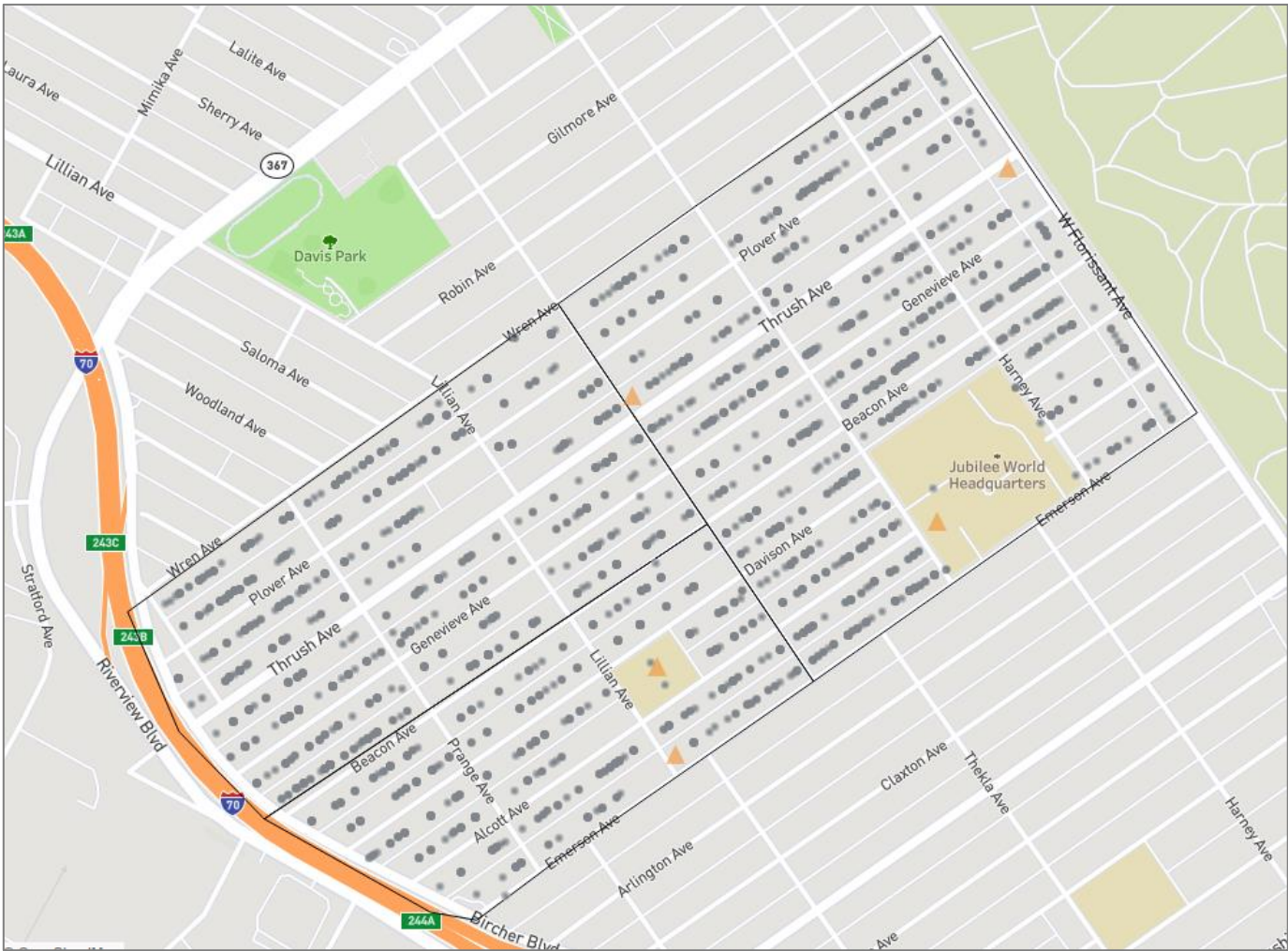
VALUES & PREFERENCES




ACCESS FACTORS




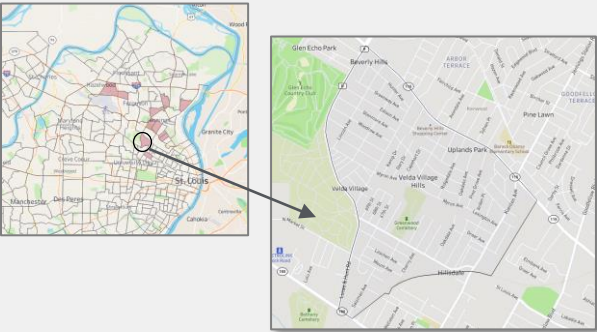
Census Tract: 29510107400
ST. LOUIS CITY



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Aspire Academy	Schools	5421 Thekla Avenue
Bishop Larry Henderson Ministries	Worship	5001 Emerson Ave
New Star Missionary Baptist Church	Worship	5201 Thrush Ave
Northway Supermarket	Grocery	5590 W Florissant Ave
Walbridge Elem. Community Ed.	Schools	5000 Davison Avenue

**Point of Interest (POI)**

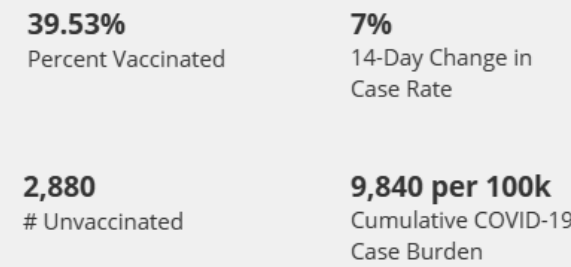
**Vulnerable Population**
(Low to high density)
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



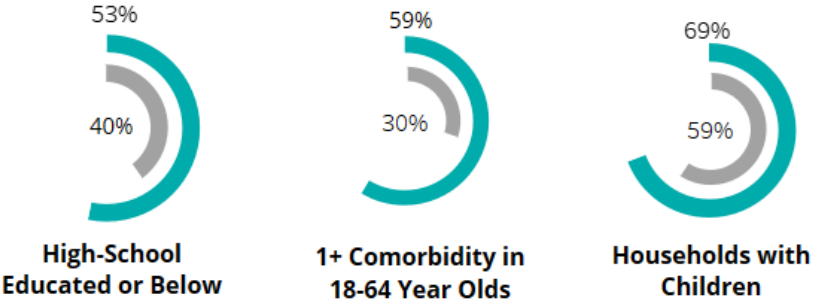
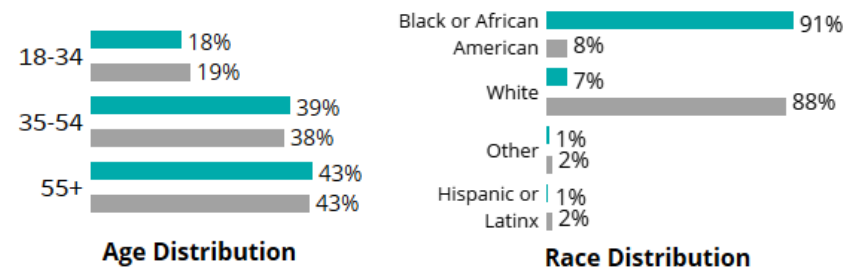
St. Louis, MO
29189213800



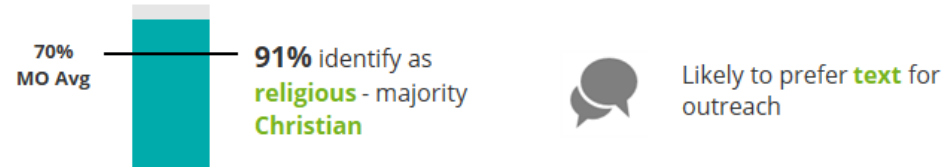
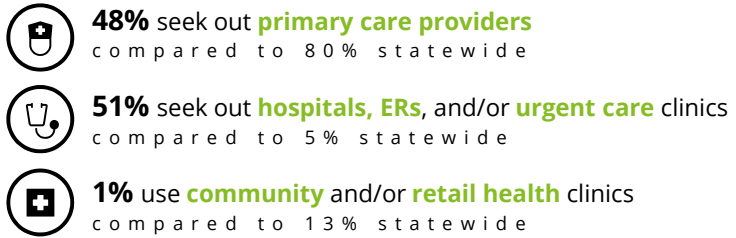
COVID-19 METRICS



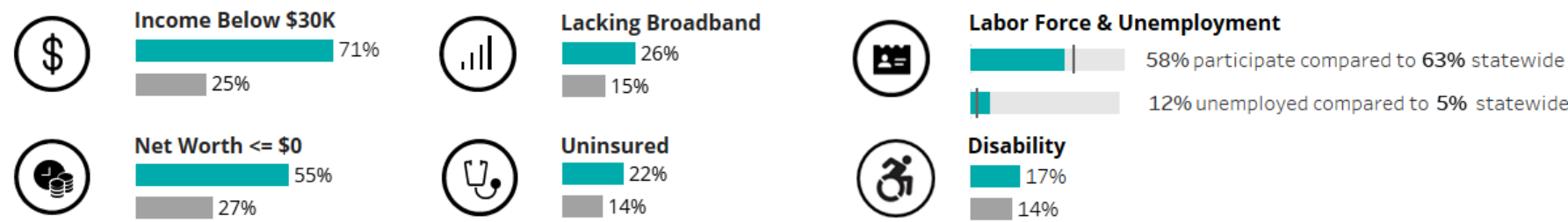
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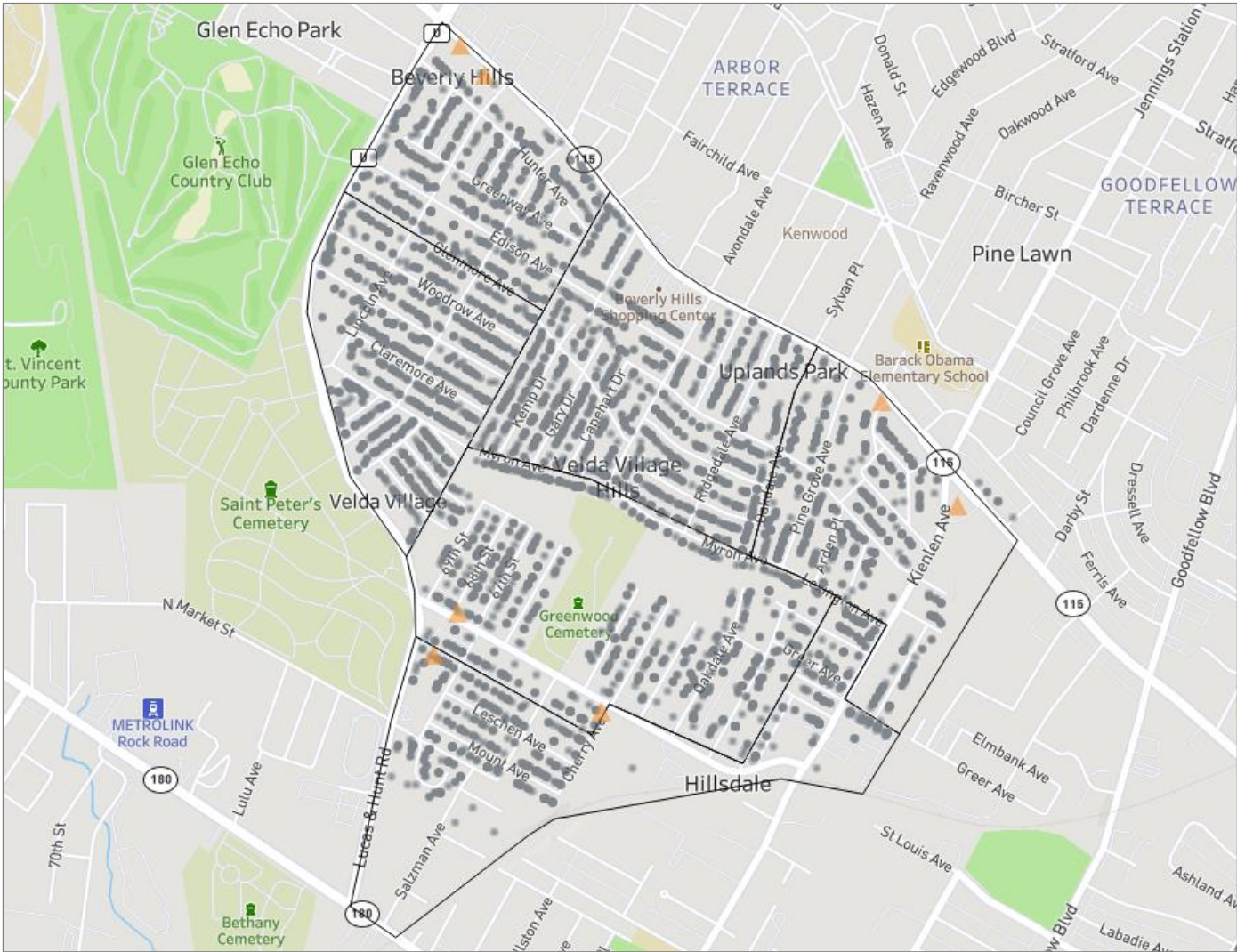
VALUES & PREFERENCES




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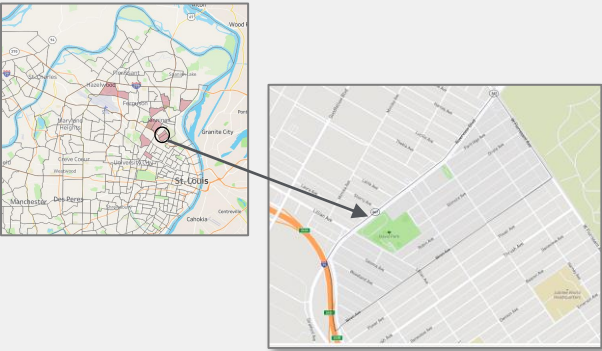
Census Tract: 29189213800
ST. LOUIS COUNTY



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Beverly Hills Pharmacy	Pharmacy	7150 Natural Bridge
Hair Commanders	Barber / salon	7118 Natural Bridge Rd
Hillsdale Police Department	Police / fire	6614 Jesse Jackson Ave
Krispy Krunchy Chicken	Restaurant	6150 Natural Bridge Ave
Solid Rock Church	Worship	6400 Saint Louis Ave
Tnt	Grocery	6711 Saint Louis Ave

**Point of Interest (POI)**

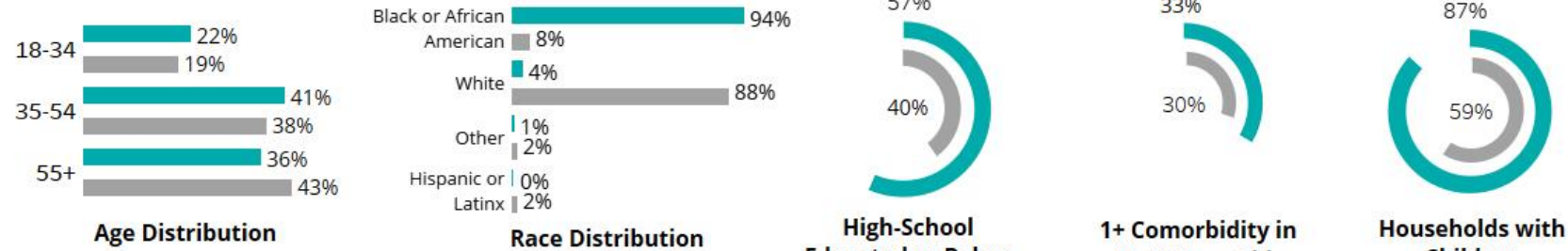
**Vulnerable Population**
(Low to high density)
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



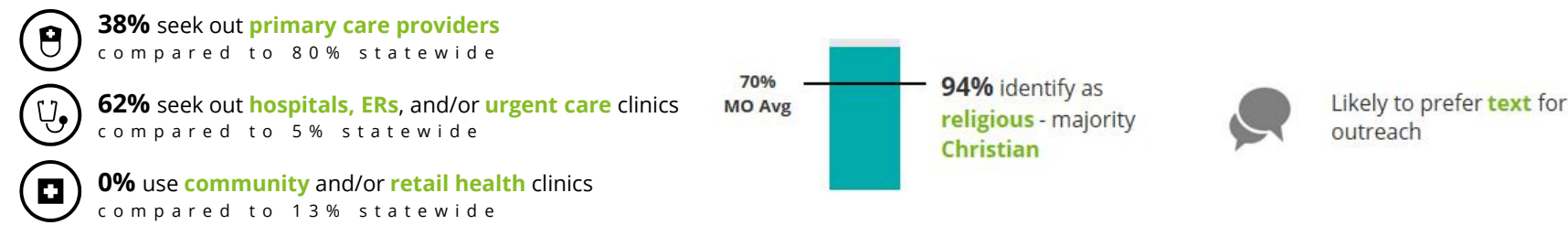
COVID-19 METRICS



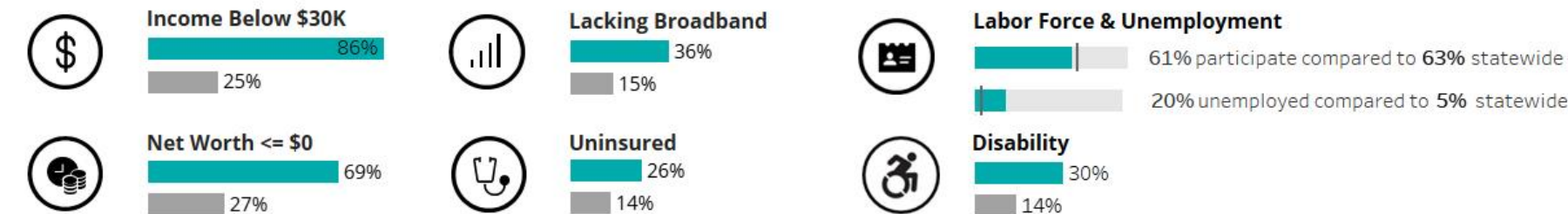
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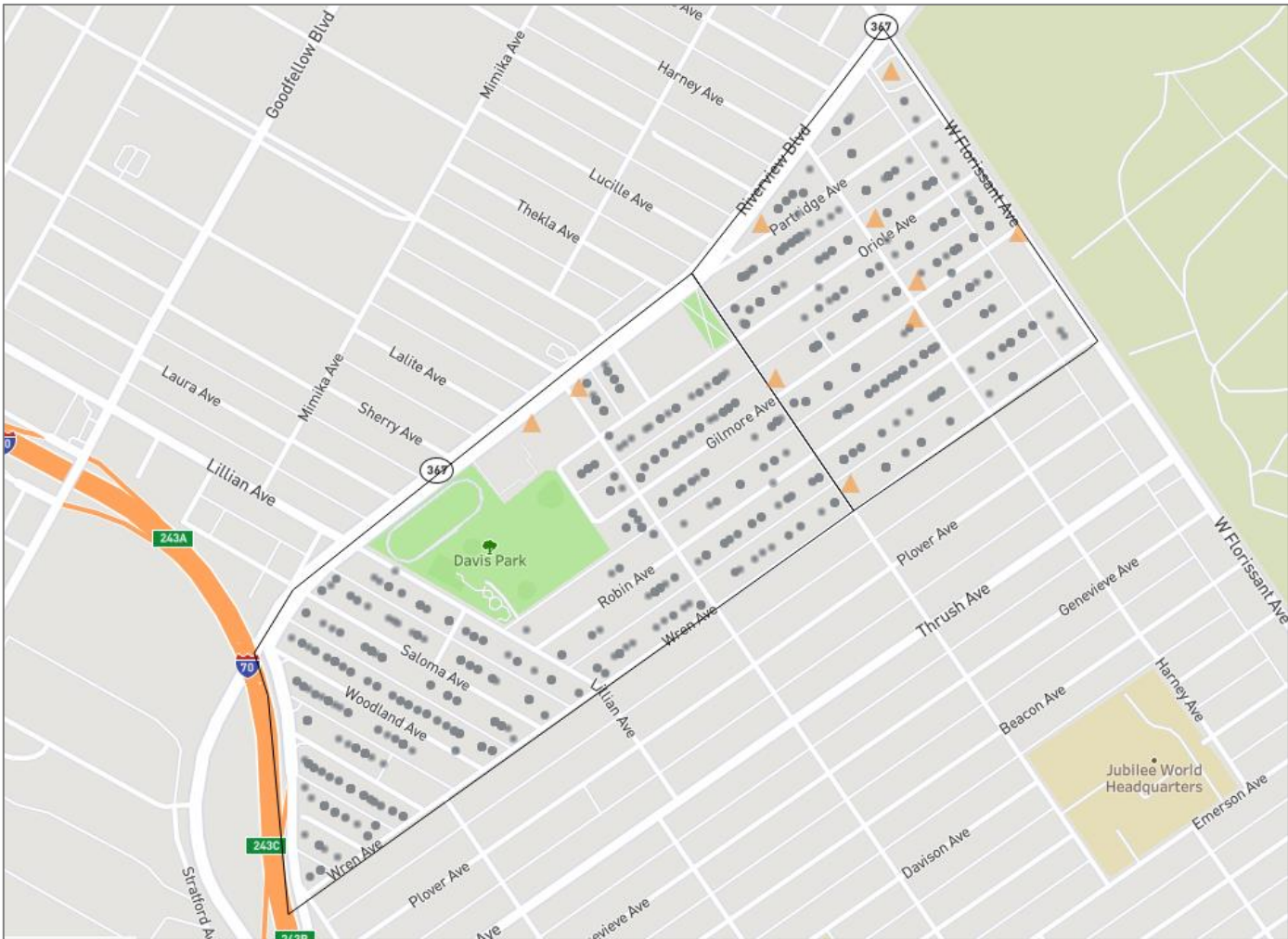
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29510107200
ST. LOUIS CITY



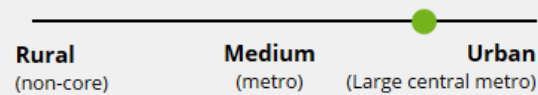
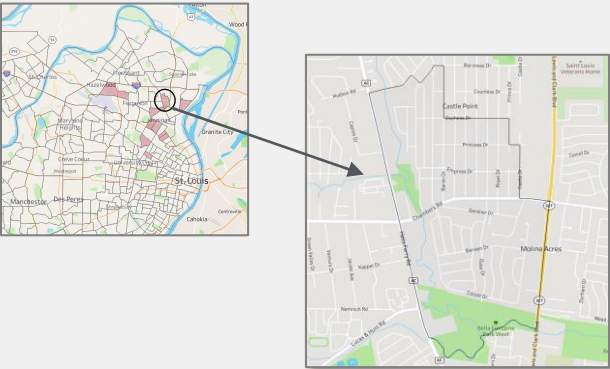
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Celestial Temple of Peace Church	Worship	5501 Oriole Ave
El Bethel Baptist Church	Worship	5401 Gilmore Ave
Greater Calvery Missionary Baptist Church	Worship	5202 Riverview Blvd
Greater St Paul Missionary Baptist Church	Worship	5503 Gilmore Ave
Saint Louis Fire Department Station 27	Police / fire	5435 Partridge Ave
St Matthew Lutheran Church Mo Synod	Worship	5403 Wren Ave
Transportation and Law	Schools	5140 Riverview Boulevard

Legend

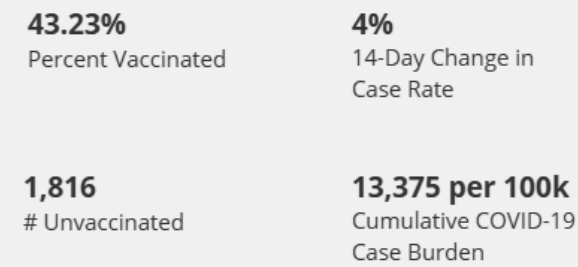
 Point of Interest (POI)

 Vulnerable Population
(Low to high density)

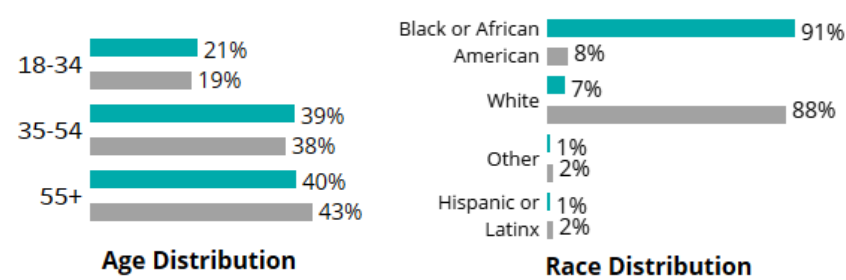
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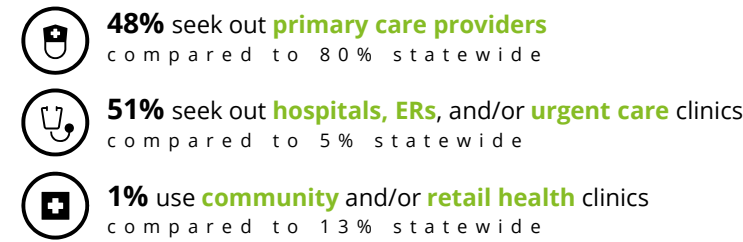
COVID-19 METRICS



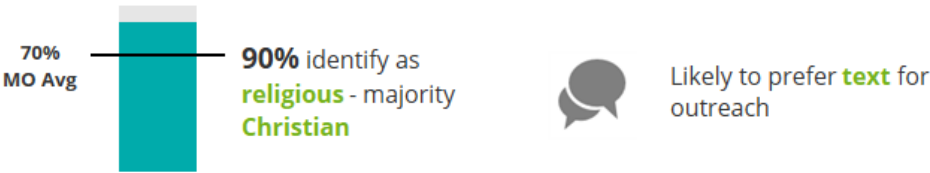
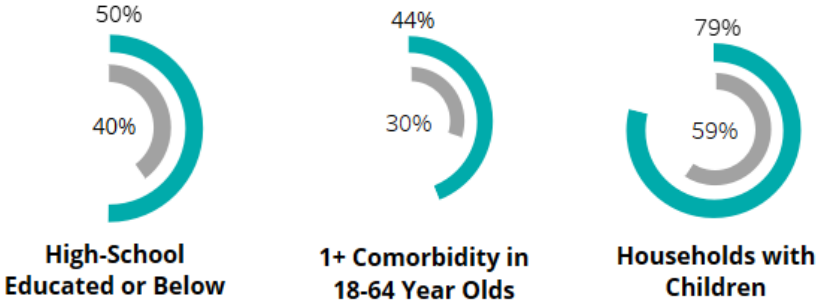
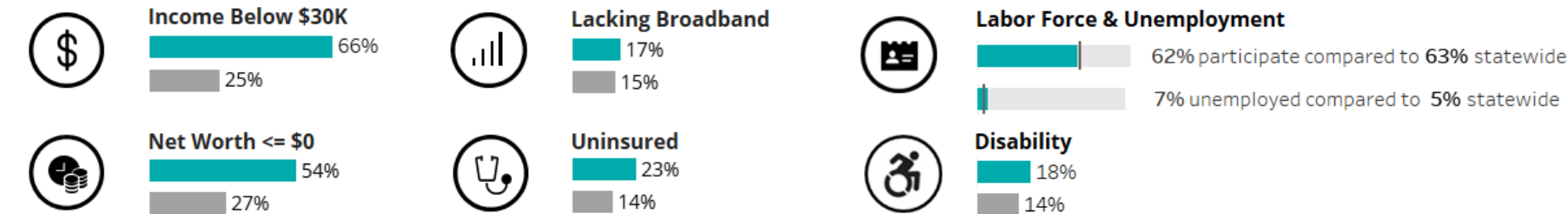
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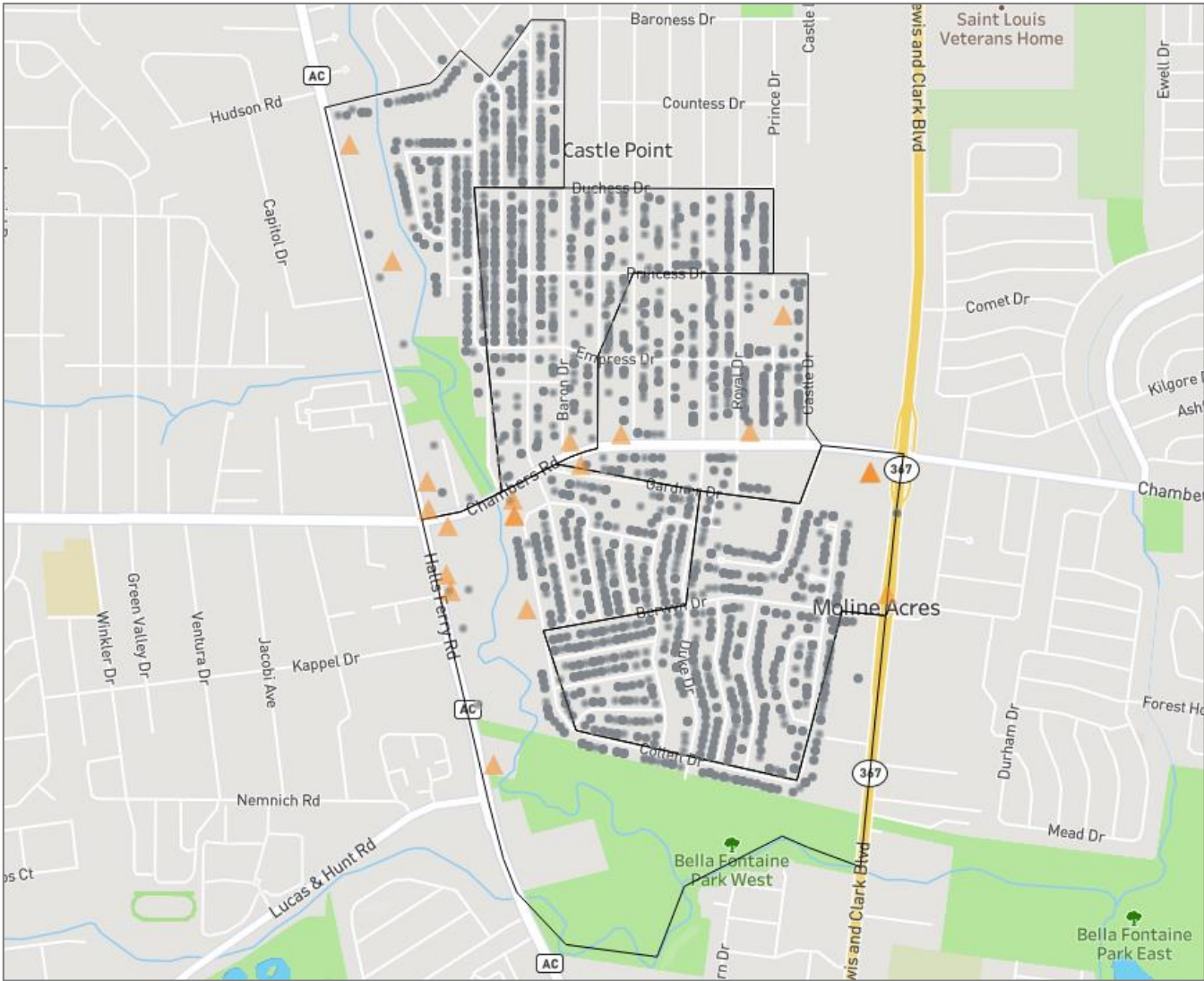
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29189210502
ST. LOUIS COUNTY



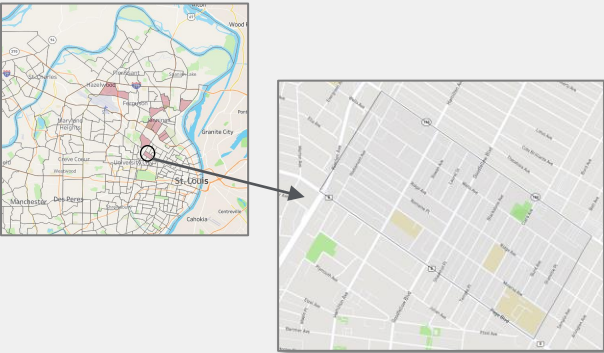
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
All Access Barbershop	Barber / salon	9989 Lewis and Clark Blvd
Believers Chapel Bible Church	Worship	10340 Halls Ferry Rd
Dwight McDaniels Ministerial Center	Worship	10212 Halls Ferry Rd
Meadows Elem.	Schools	9801 Edgefield
Moline Acres Police Department Moline Acres Missouri	Police / fire	2449 Chambers Rd
Saint Louis County Library, Lewis & Clark Branch	Library	9909 Lewis and Clark Blvd, Saint Louis, Missouri, 63136
The Temple Non Denominational Church	Worship	10112 Royal Dr
Touba Professional African Hair Braiding	Barber / salon	9922 Halls Ferry Rd
Walgreens #05047	Pharmacy	2202 Chambers Rd
Word Christian Fellowship	Worship	9930 Halls Ferry Rd

Legend

 Point of Interest (POI)

 Vulnerable Population
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



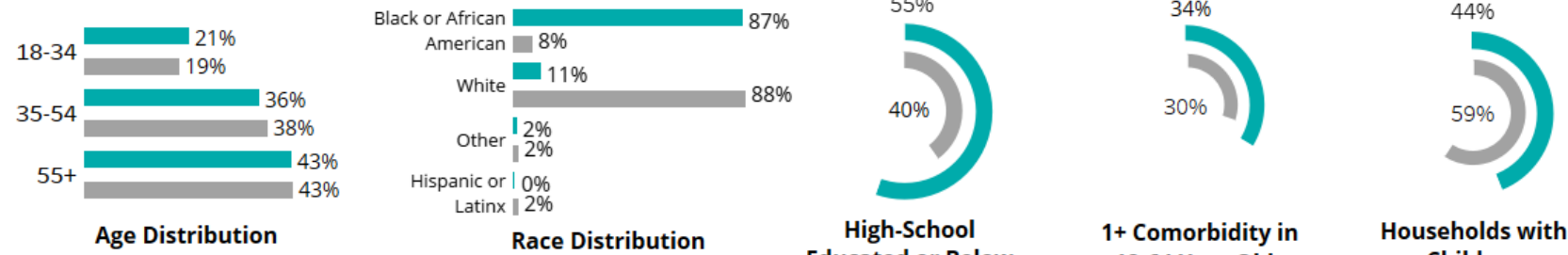
St. Louis city, MO
29510106100



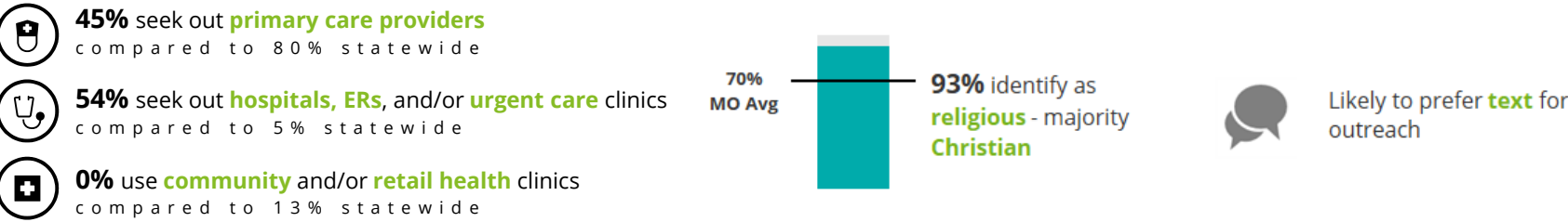
COVID-19 METRICS



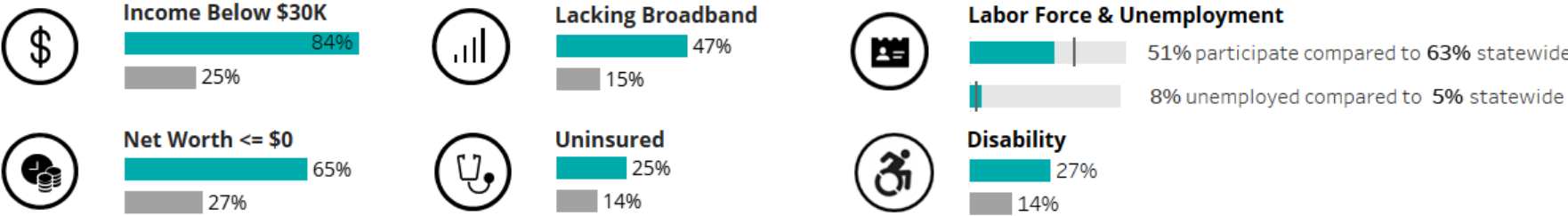
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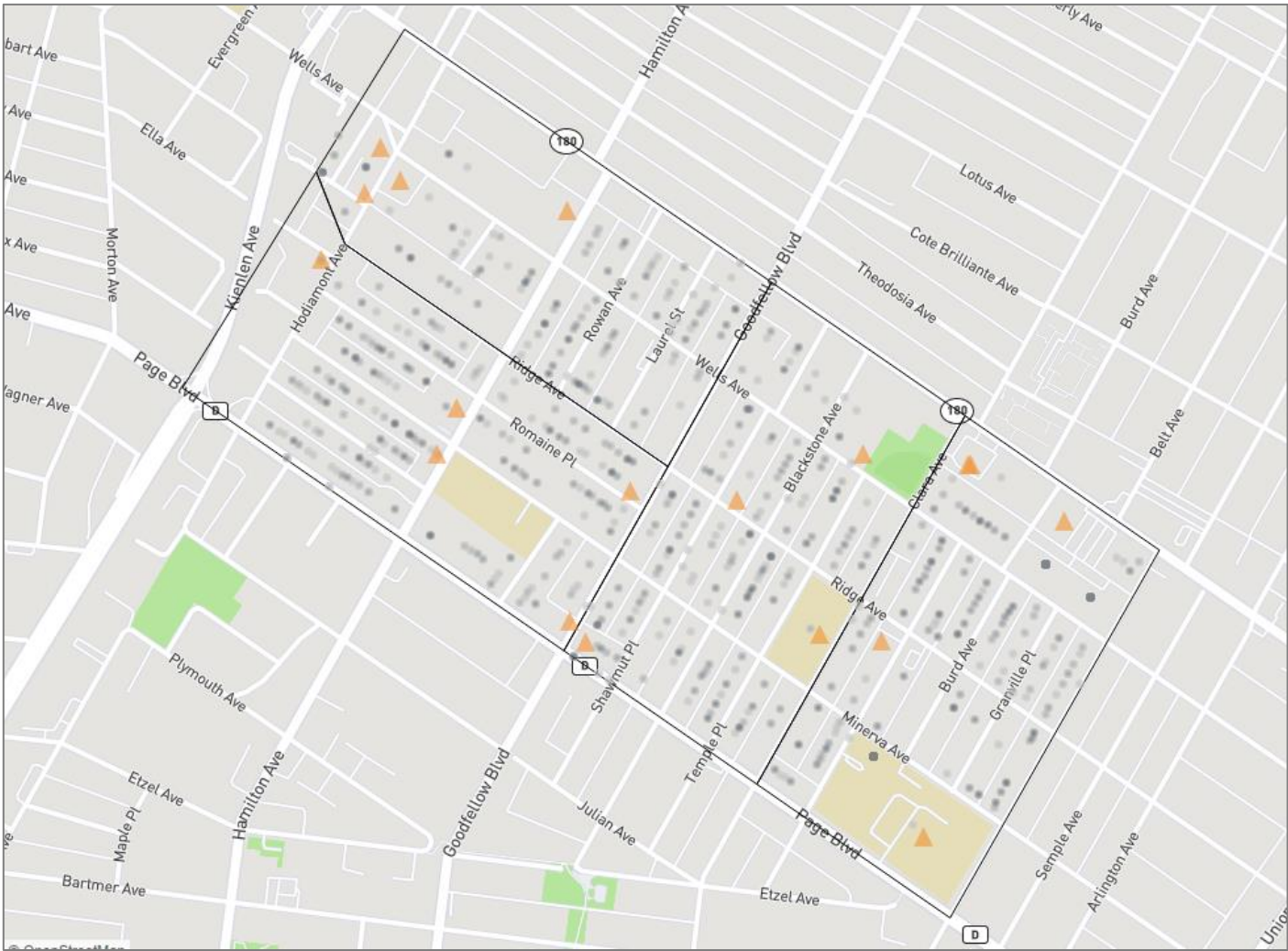
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29510106100
ST. LOUIS CITY



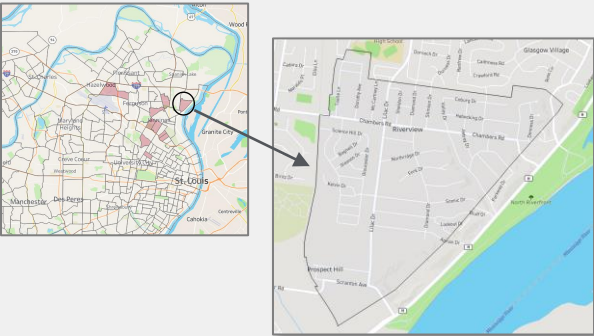
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Bostick Temple Church of God In Christ	Worship	1448 Hodiamont Ave
Emmanuel M B Church	Worship	1385 Goodfellow Blvd
Faith Deliverance Church	Worship	1455 Hodiamont Ave
Ford-Ford Br. Elem. Comm. Ed.	Schools	1383 Clara Avenue
Friendly Temple M B Church	Worship	5544 Dr Martin Luther King Dr
Jerusalem M B Church	Worship	5596 Ridge Ave
Krispy Krunchy Chicken	Restaurant	5588 Dr Martin Luther King Dr
Saint Louis Fire Department Station 13	Police / fire	1400 Shawmut Pl
Sandwich Depot	Restaurant	5753 Page Blvd
St Augustine Church	Worship	1371 Hamilton Ave
Tabernacle Memorial Church of God In Christ	Worship	1475 Hamilton Ave
YMCA	Neighborhood / community	5555 Page Blvd

Legend

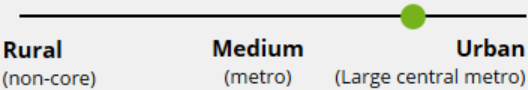
 Point of Interest (POI)

 Vulnerable Population
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



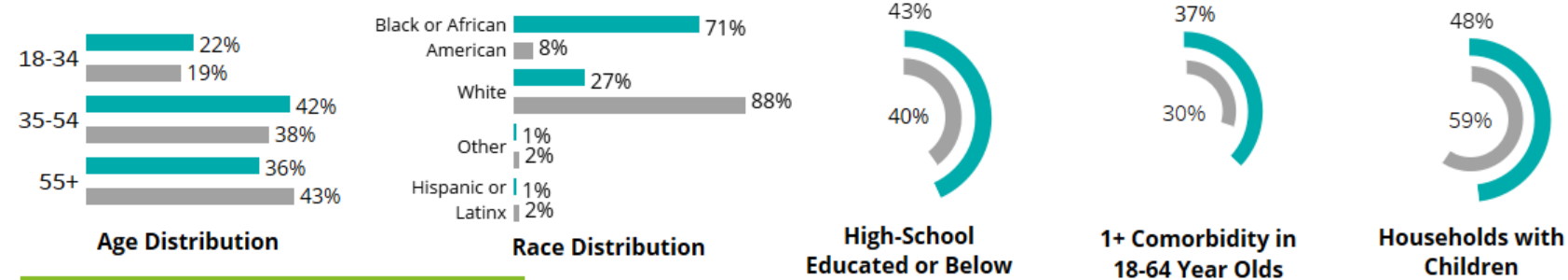
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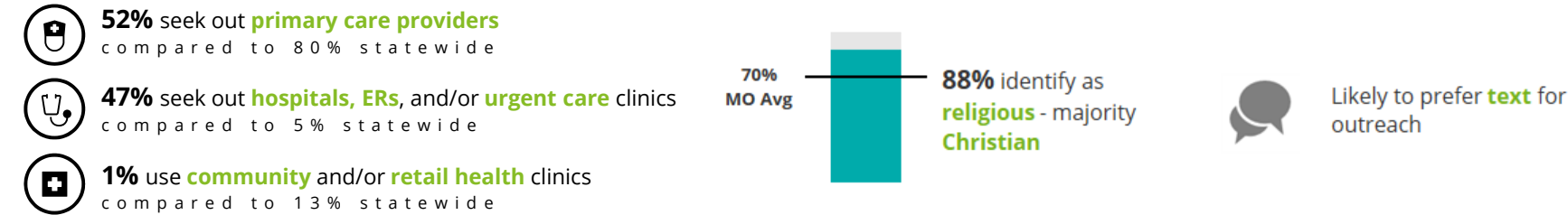
COVID-19 METRICS



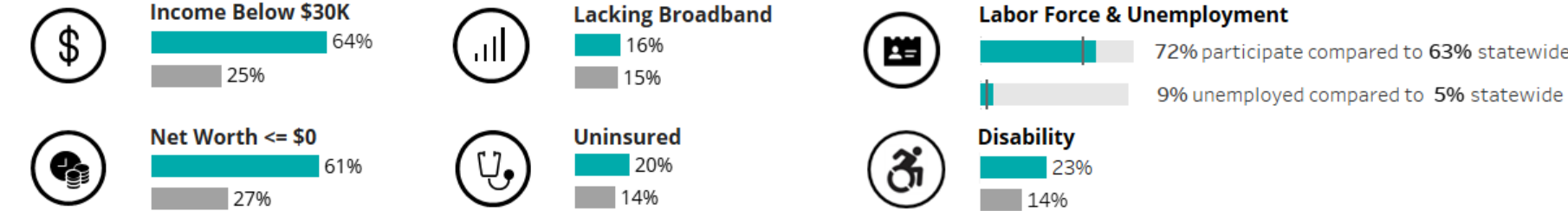
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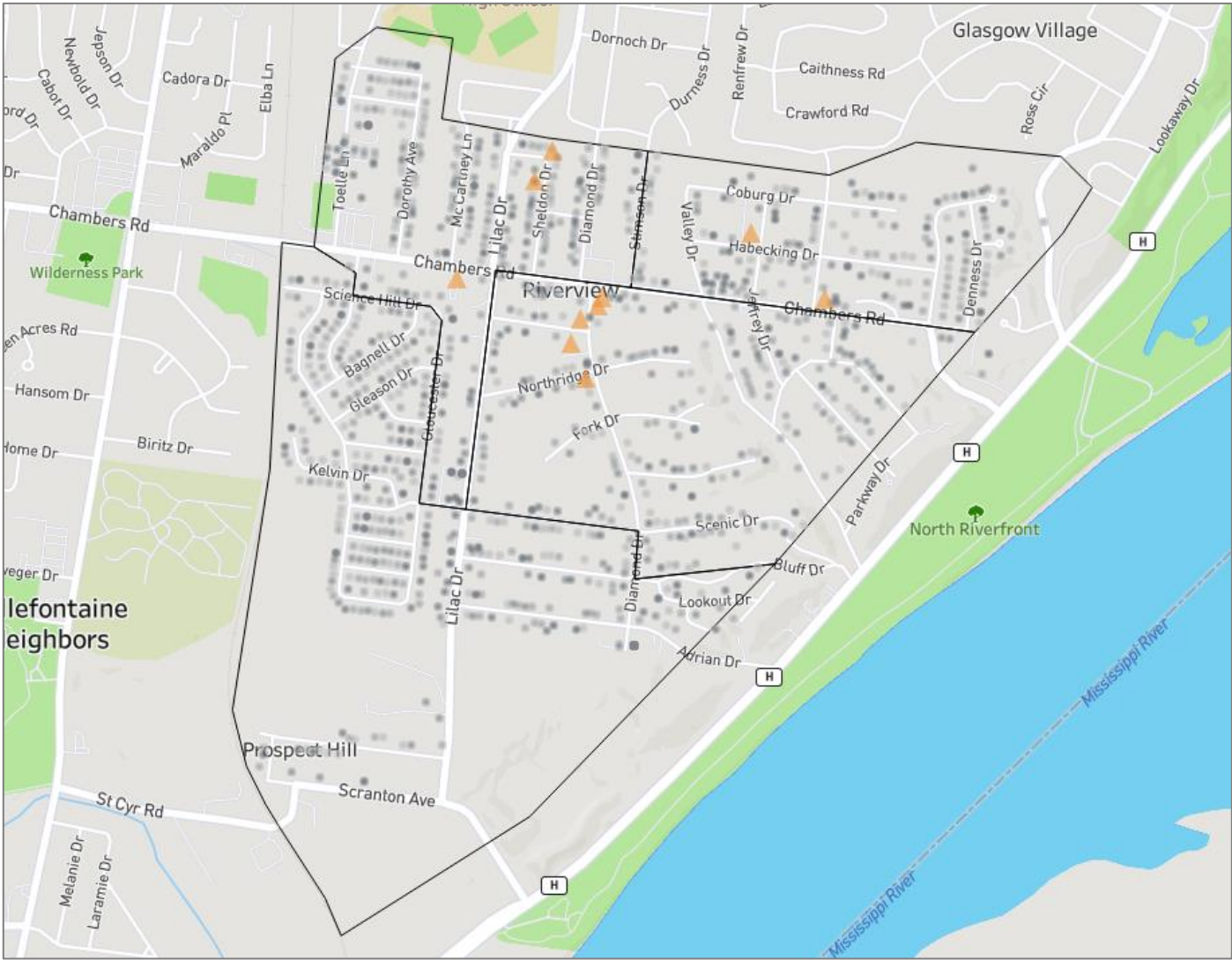
VALUES & PREFERENCES




ACCESS FACTORS




Census Tract: 29189210300
ST. LOUIS COUNTY

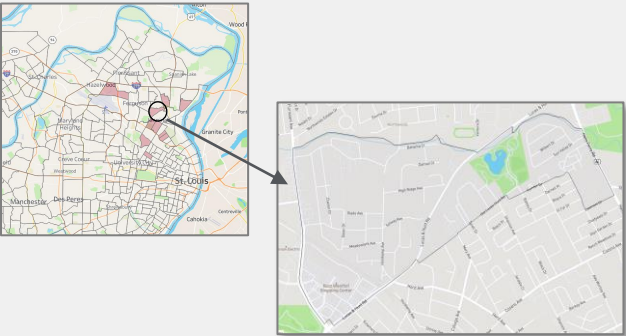


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
All Nations Christian Church	Worship	10047 Jeffrey Dr
Berea Lutheran Church	Worship	9915 Diamond Dr
Diamond Drive Deli	Grocery	9939 Diamond Dr
Greater Faith Temple Worship Center	Worship	10057 Sheldon Dr
Han D Mart	Grocery	163 Chambers Rd
Jesus Is All Ministries	Worship	111 Sheldon Rd
Krispy Krunchy Chicken	Restaurant	352 Chambers Rd
Pavilion of Praise Christian Church	Worship	526 Chambers Rd
Riverview Fire Protection District Station 1	Police / fire	9933 Diamond Dr
Shear Perfection	Barber / salon	9863 Diamond Dr

**Point of Interest (POI)**

**Vulnerable Population**
(Low to high density)

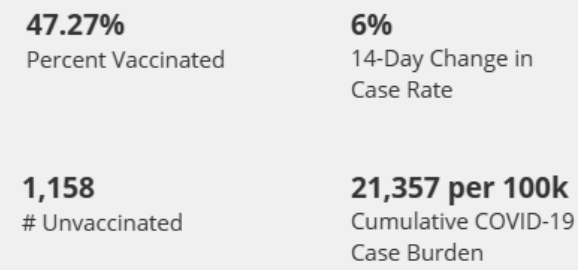
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



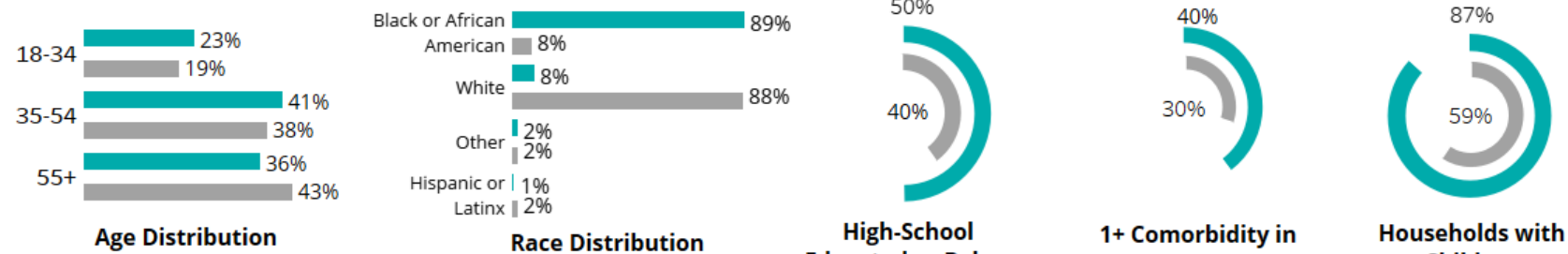
St. Louis, MO
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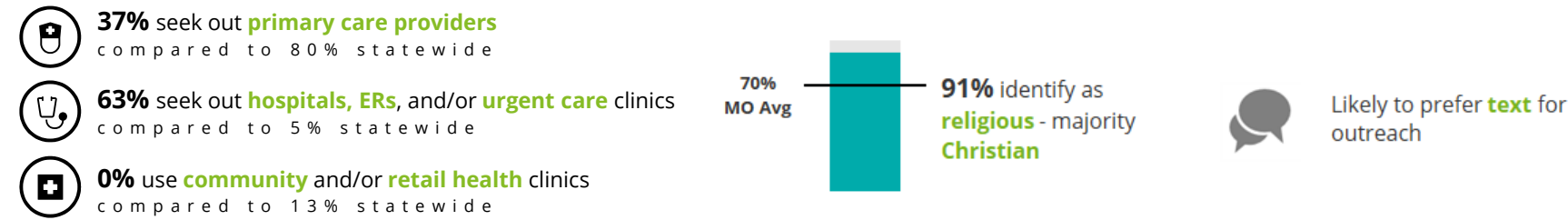
COVID-19 METRICS



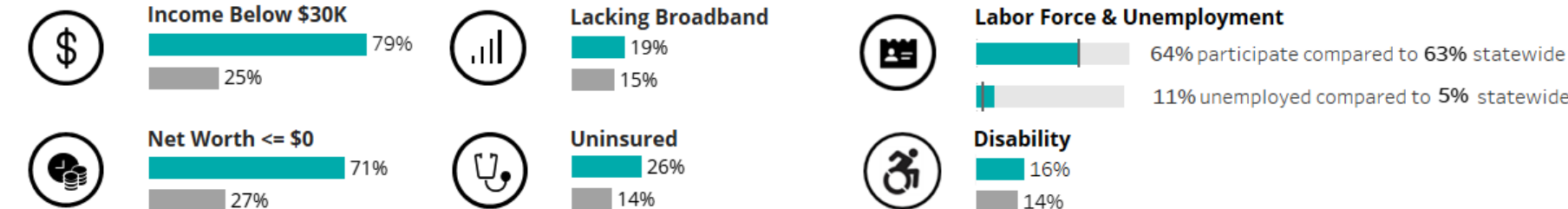
This tract at a glance:



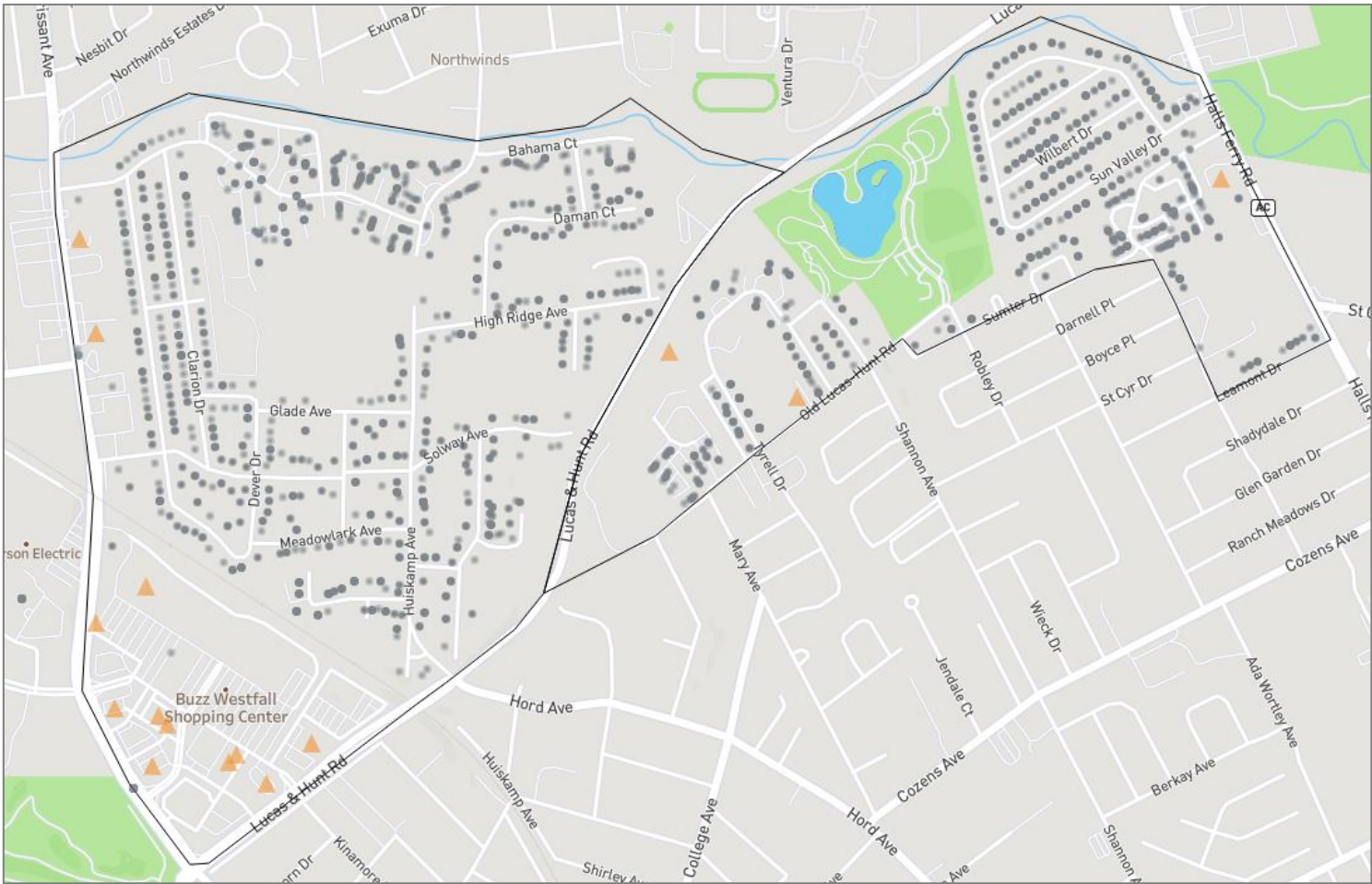
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29189212002
ST. LOUIS COUNTY



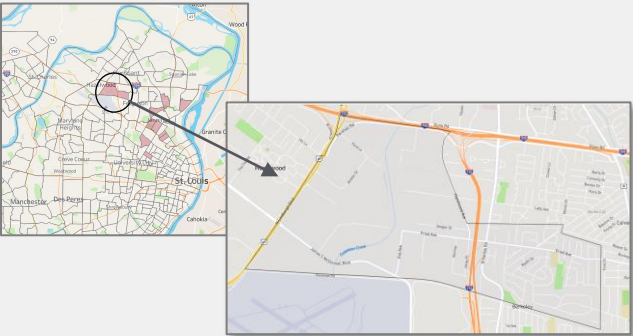
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
ALDI	Grocery	8445 Lucas and Hunt Rd
Christ Community United Methodist Church	Worship	8841 Lucas and Hunt Rd
Coleman Wright CME Church	Worship	9777 Halls Ferry Rd
CVS/pharmacy #18031	Pharmacy	8037 West Florissant Ave
Long Nails	Barber / salon	8005 West Florissant Ave Ste K
Nail Trap	Barber / salon	9108 West Florissant Ave
Schnucks	Grocery	8037 West Florissant Ave
Young Womens Christian	Worship	2650 Lordan Dr

Legend

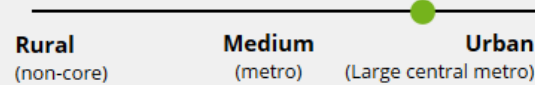
 Point of Interest (POI)

 Vulnerable Population
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



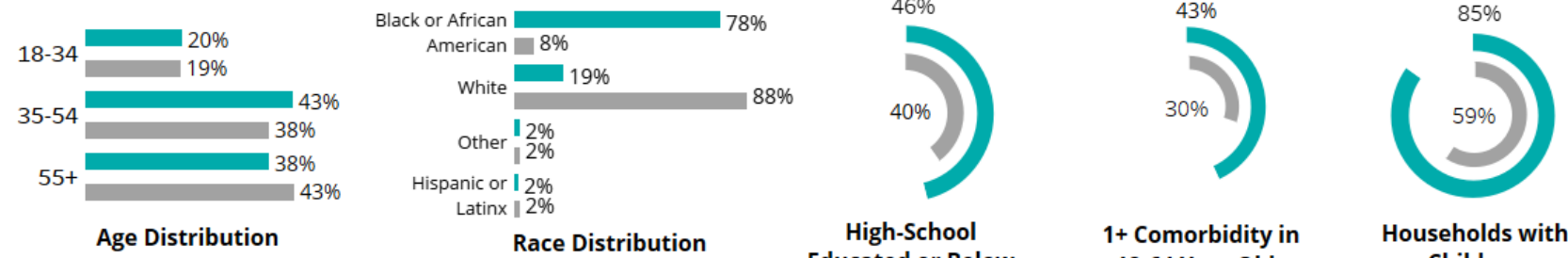
St. Louis, MO
29189211500



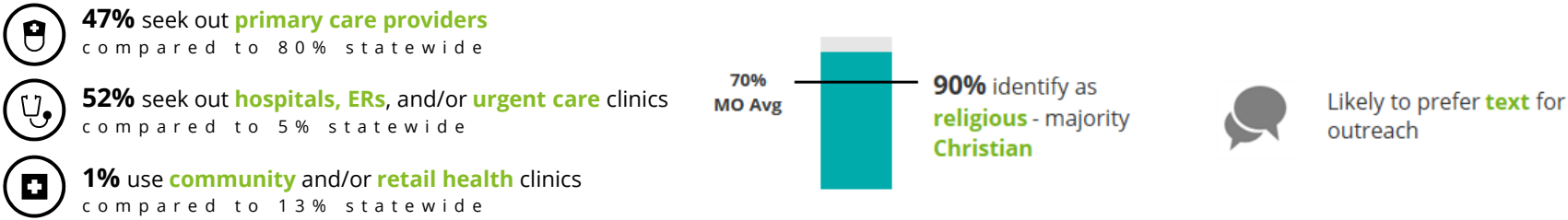
COVID-19 METRICS



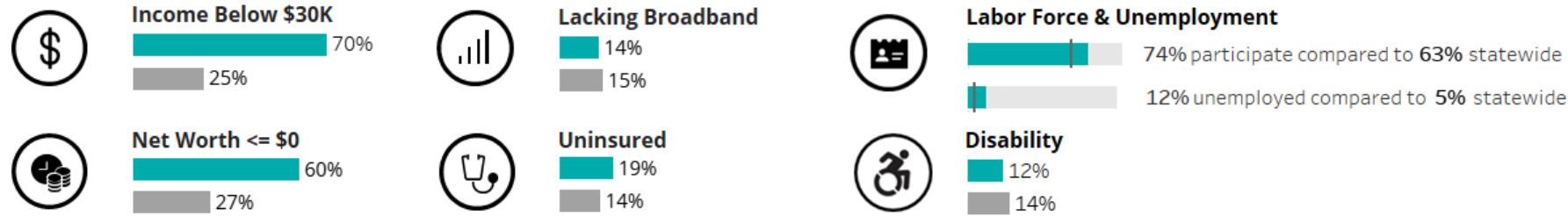
This tract at a glance:



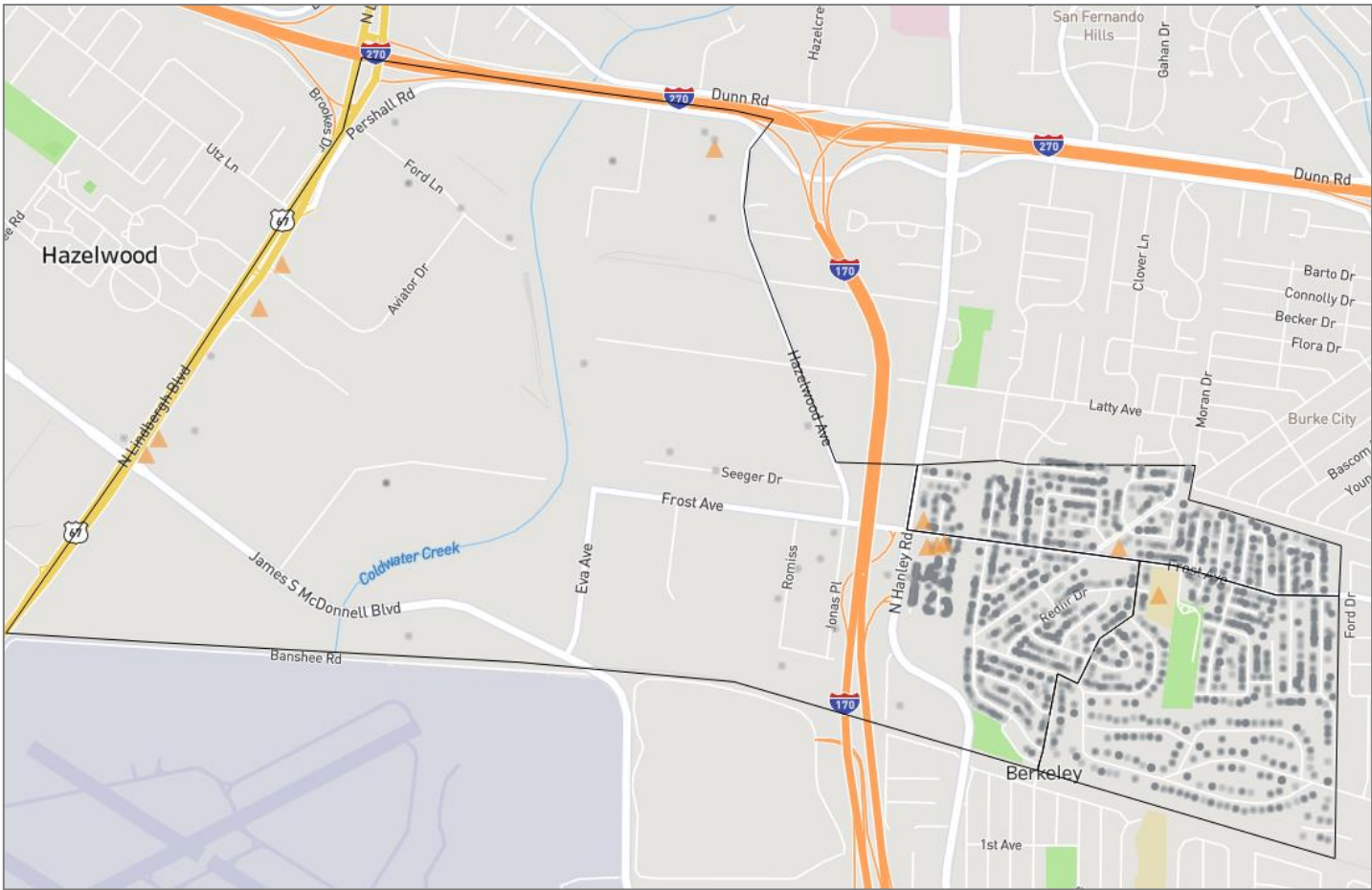
VALUES & PREFERENCES



ACCESS FACTORS





Census Tract: 29189211500
ST. LOUIS COUNTY



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
1st Financial Federal Credit U	Grocery	5916 N Lindbergh Blvd
Arcobasso Foods	Grocery	8850 Pershall Rd
Berkeley Elementary School	Schools	8300 Frost Avenue
D & K Sandwich Shop	Restaurant	8363 Frost Ave
Hazelwood Fire Department Station 1	Police / fire	6100 N Lindbergh Blvd
Hunan Chinese Express	Restaurant	8620 Frost Ave
Jimmy John's	Restaurant	6064 N Lindbergh Blvd
Krispy Krunchy Chicken	Restaurant	6800 N Hanley Rd
Nephew's Grille	Restaurant	8624 Frost Ave
Oriental Chop Suey	Restaurant	8640 Frost Ave
Subway	Restaurant	5906 N Lindbergh Blvd

Legend

 Point of Interest (POI)

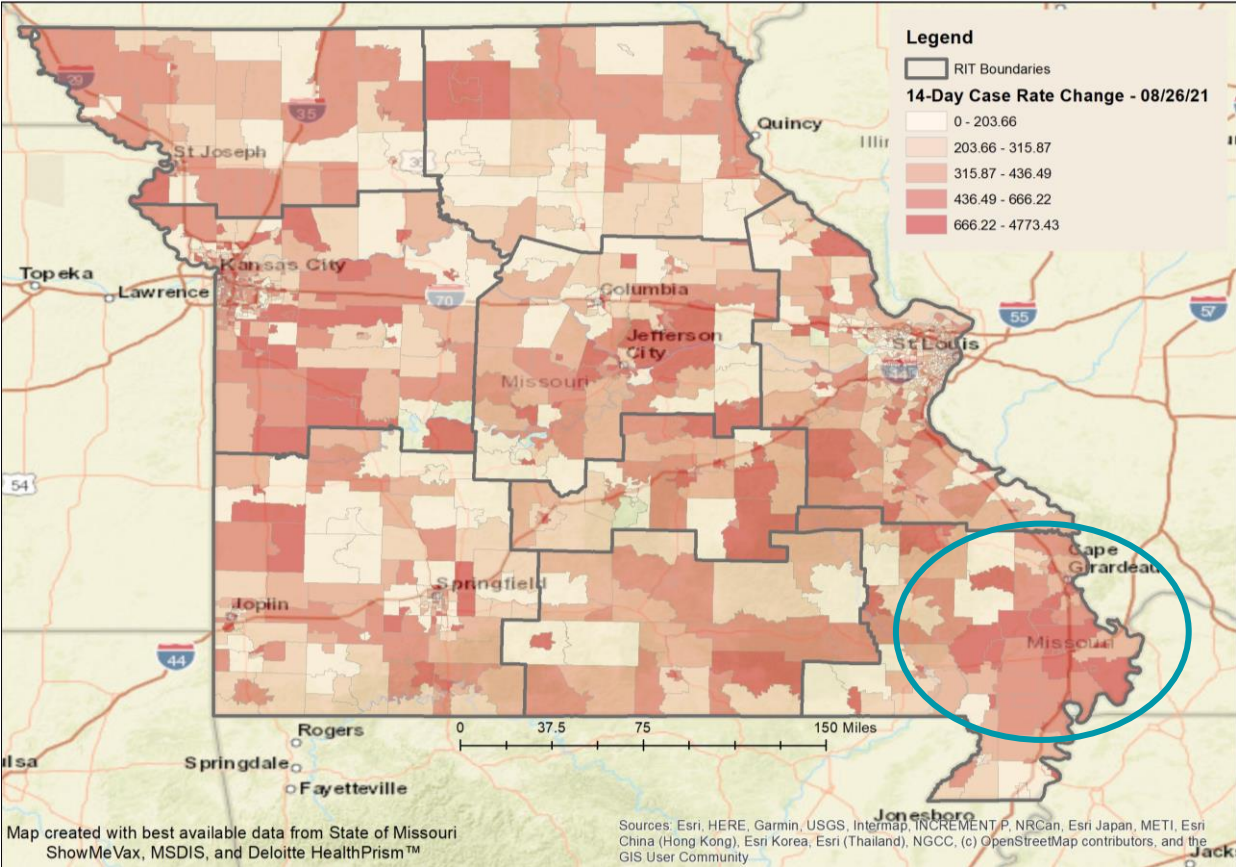


Vulnerable Population
(Low to high density)
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority

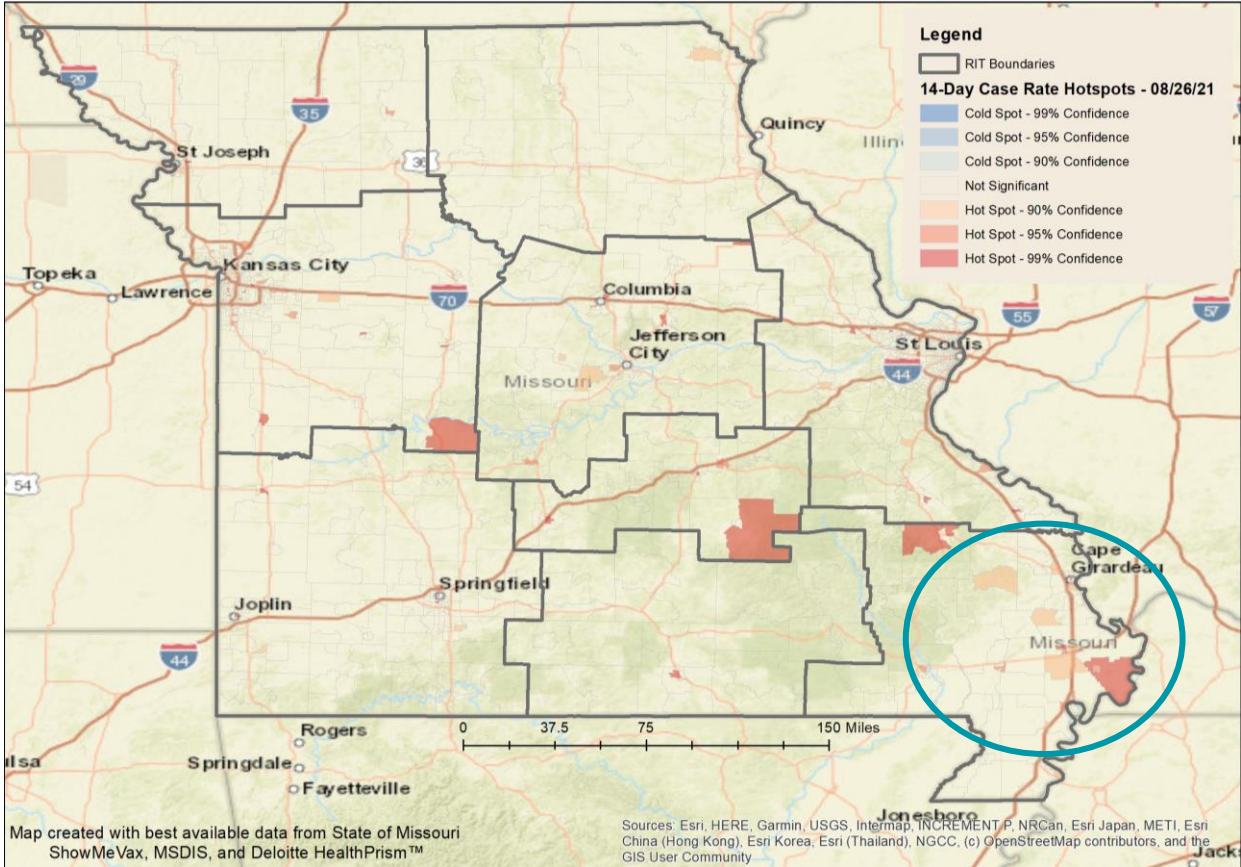
Appendix

For the time period between 8/12/21 and 8/26/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right

14-Day Case Rate Change



14-Day Case Rate Hotspots



Regions A, E and F have experienced the **highest increase of COVID-19 case rates** for the past 3 weeks

Case rate hotspots have considerably increased in **Region E** – with 82% (14 of 17 hotspots) in **close proximity to I-55 and US-60**

Cape Girardeau, Mississippi, New Madrid, Scott, and Stoddard counties represent a small, but growing cluster of increasing case rates and 9 case rate hotspots

Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/26/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.

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Content may be used to complement local efforts already taking place in your State and to assist with providing a level of granularity and frequency of updates that are not available in public datasets.



Information presented is illustrative of a sample of analyses and capabilities that may be available to you to support COVID-19 response and recovery efforts in Missouri.



Insight(s) represent content generated as of a specific date – content and insights are subject to change given updated data.



Content is populated by proprietary and publicly available sources, both of which are non-static and continuously updating.



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